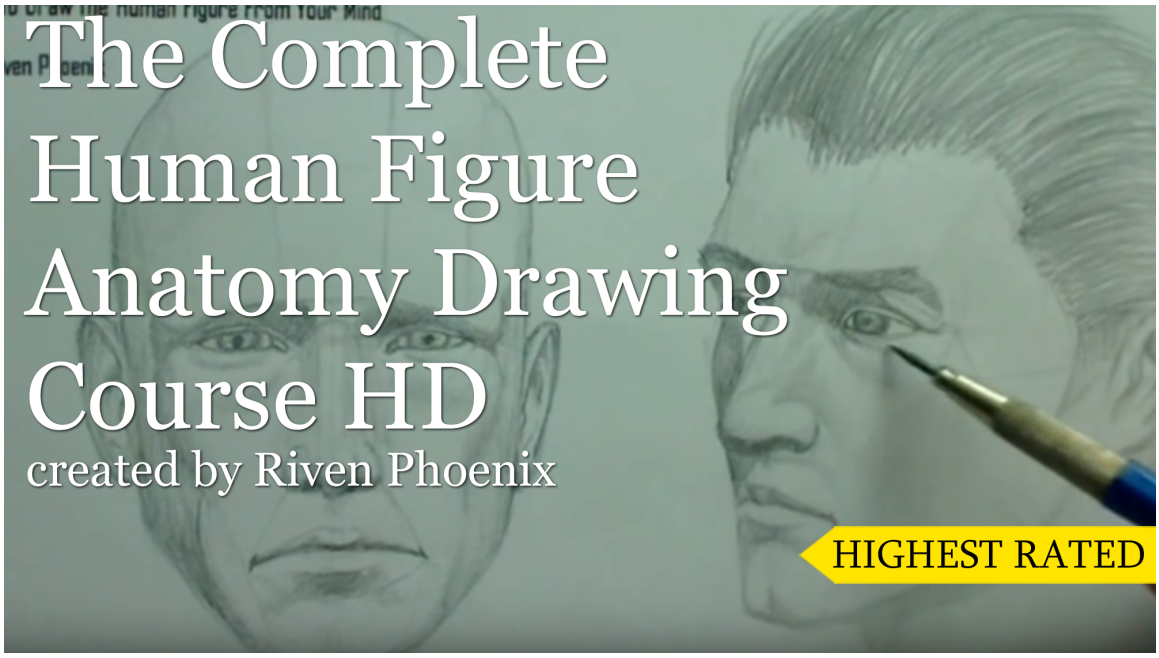

The Structure of Man

Learn to Draw the Human Figure From Your Mind with Riven Phoenix

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Figure Drawing Lesson 157 - The Muscles of the Hand - Part 2

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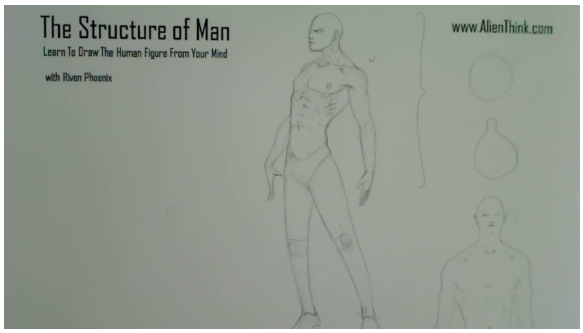
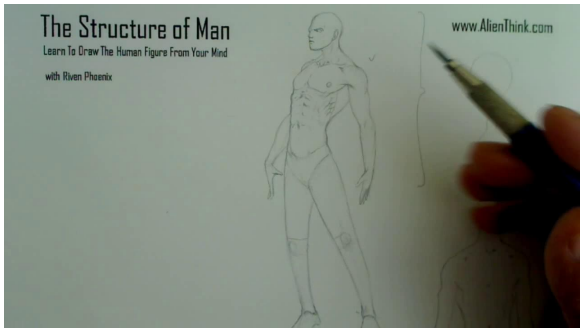
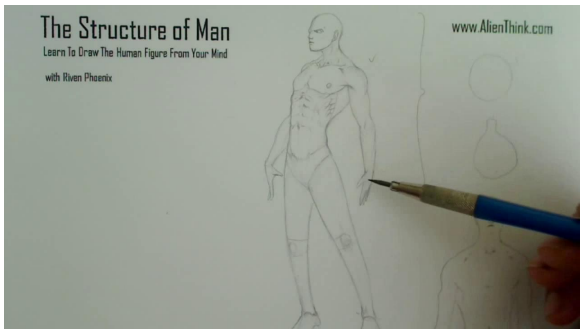
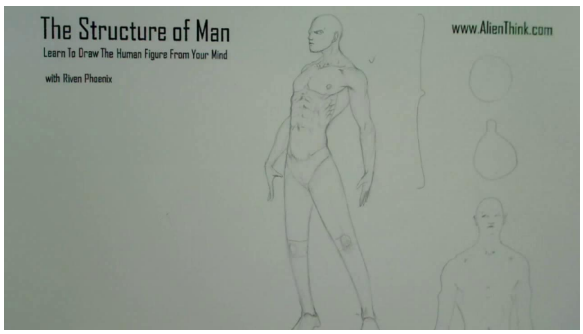
1		Hey guys, my name is Riven Phoenix and welcome to the structure of Man Learn to Draw the Human Figure from your mind training course.
2		Okay, so in the previous lesson we had a re-step milestone where we can confirm that the mind heads conceptually mastered the upper half of the body.
3		So the only thing real meaning is really the hands and then everything else from here on is going to be very easy to understand.
4		So we're almost done in understanding how to give the mind disability that we've been looking for to draw at the human figure from bliss.

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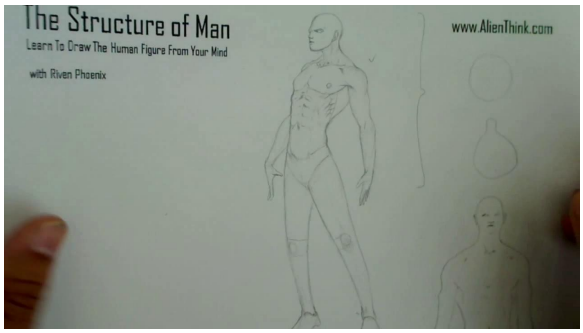
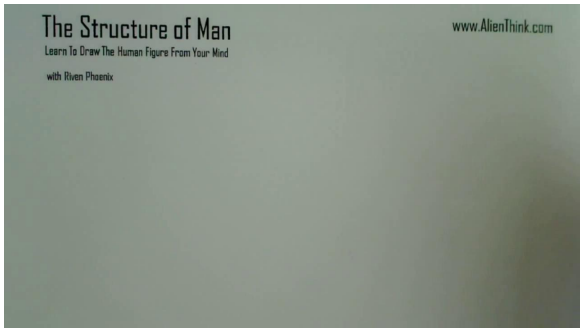
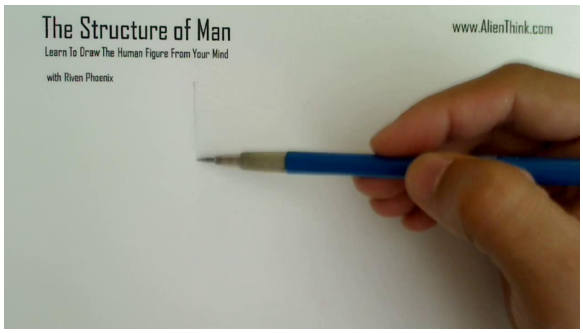
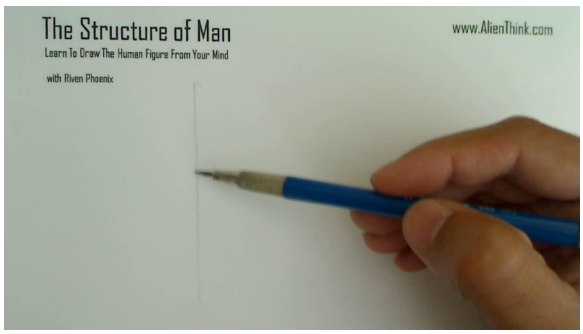
5		So now we're going to look at the hands.
6		So to draw the hands where I'm going to move it, I'm going to draw it at the first hand over here.
7		So really we need to look at the scales and system of this first.
8		So here I'm just going to draw the straight line.

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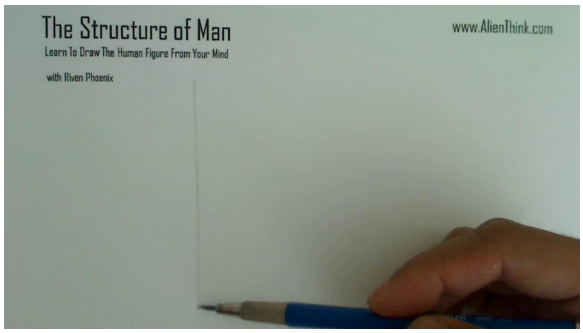
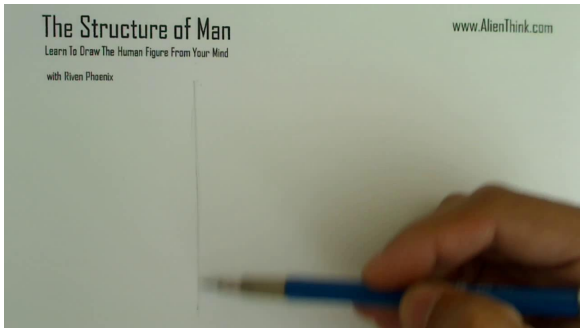
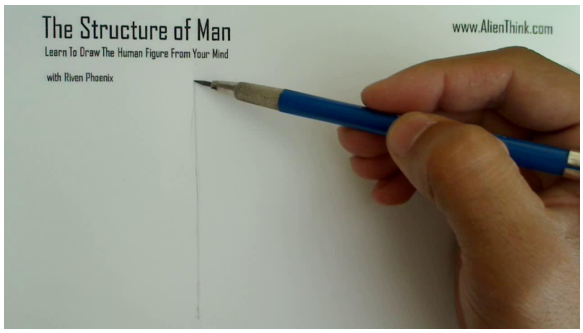
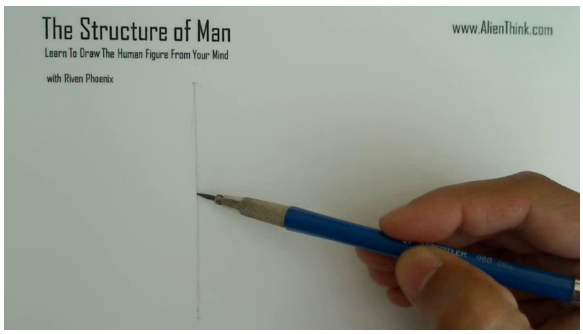
9		Again, I'm drawing out these lines straight, but the way the camera is, it'll appear a little on an angle.
10		But I think you get the concept over here.
11		There's not much I can do about that issue.
12		But over here, now once I find the center of this line, I'm just going to find the center here.

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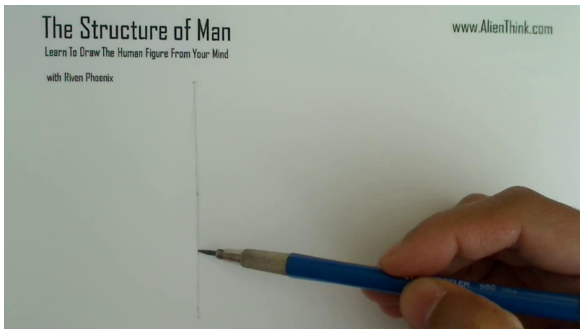
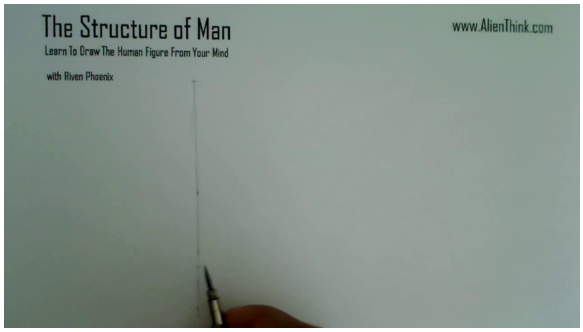
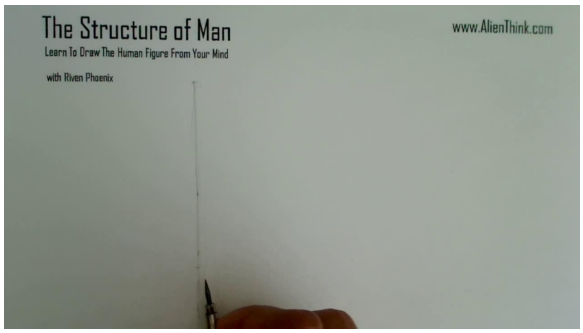
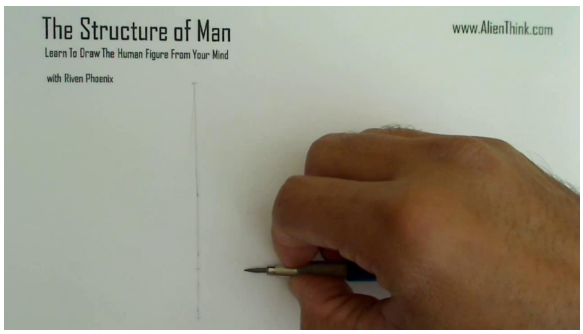
13		Go down, go up, and this gives me the width to how wide the hand should be.
14		So here I can just easily measure with the pencil.
15		We can just take a piece of paper and mark that line to be as accurate as possible.
16		So just measure twice over here to where this is supposed to be.

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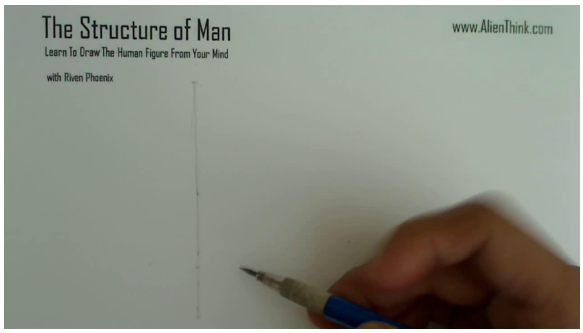
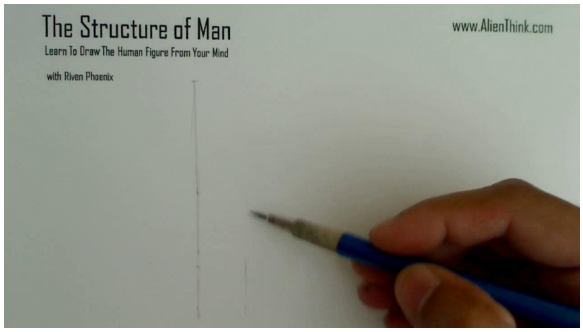
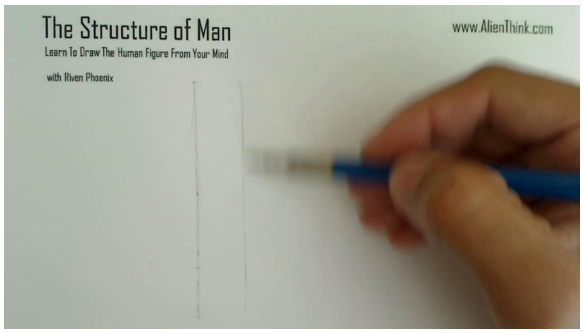
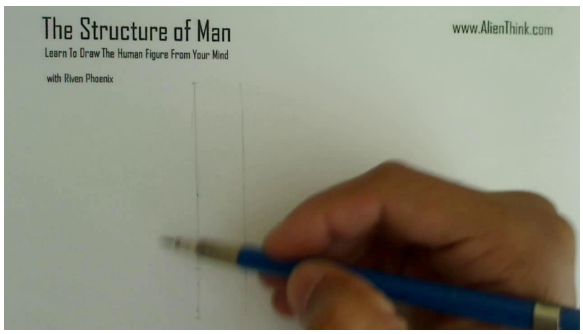
17		So this will give us the line over here.
18		So when you're going up, just go up slowly and just keep checking that you're visually getting the line correctly down.
19		And just make it into a straight line over here.
20		They just need to run parallel to each other.

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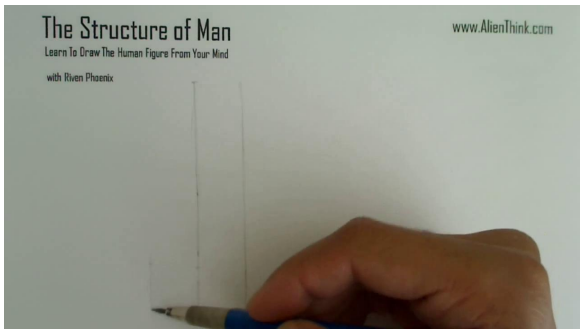
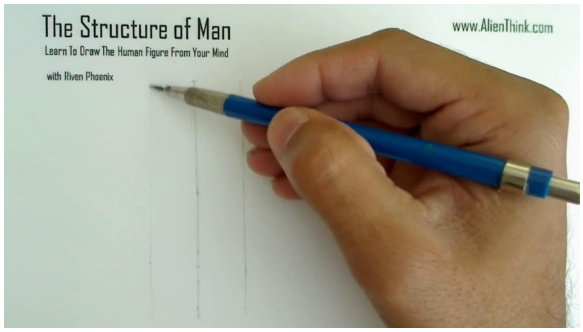
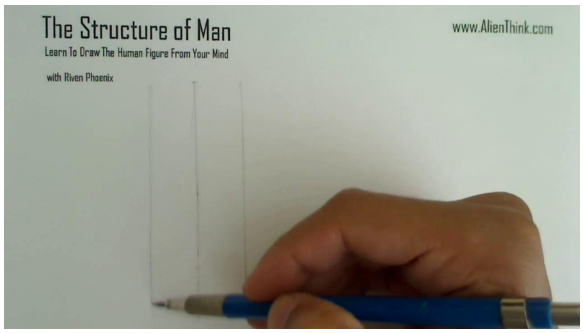
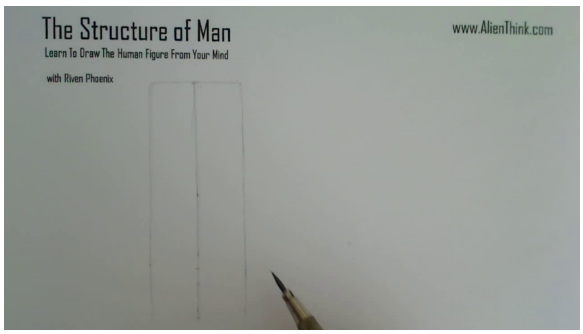
21		So first do it very lightly over here, making sure that you're getting the lines down.
22		Or you can just simply mark the lines.
23		We just need to be approximate with all these ideas now, right?
24		Because now we're getting into that understanding of how organic things are.

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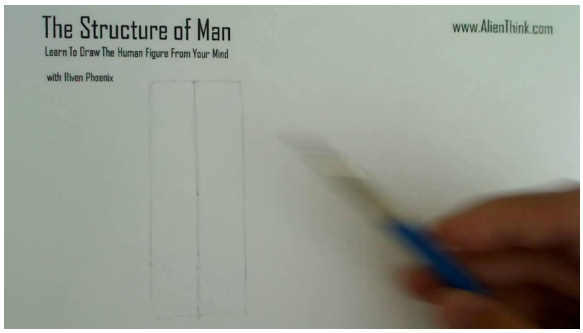
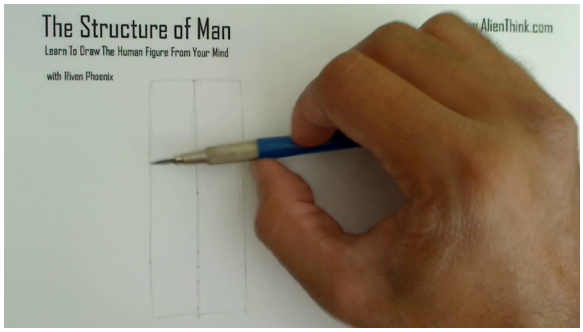
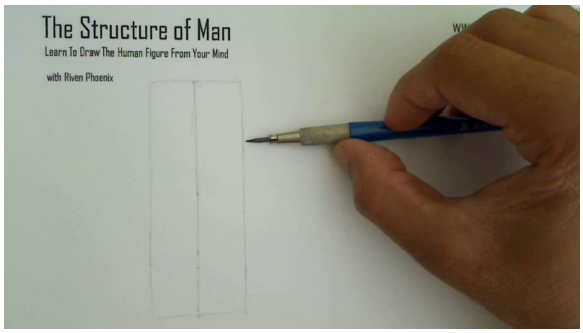
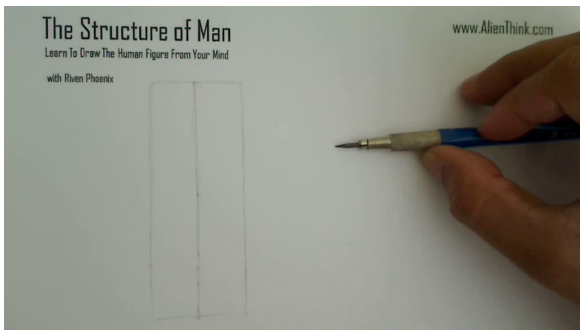
25		So we have to draw out the top and the bottom of the hand.
26		So to do this, I'm going to measure the width over here.
27		I'm going to mark this that this is going to be my width over here.
28		And I'm going to draw out really the other hand just about here, like two widths apart.

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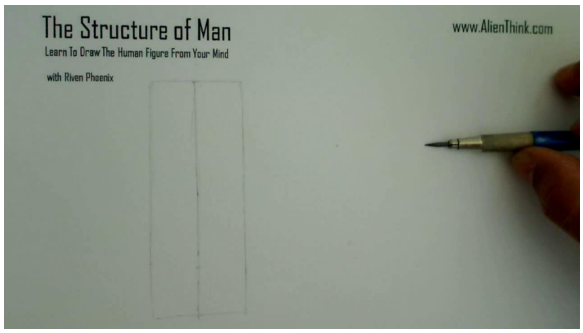
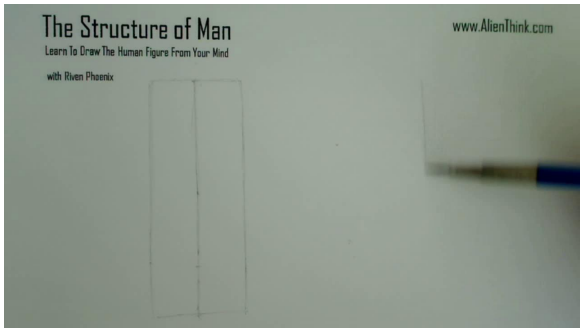
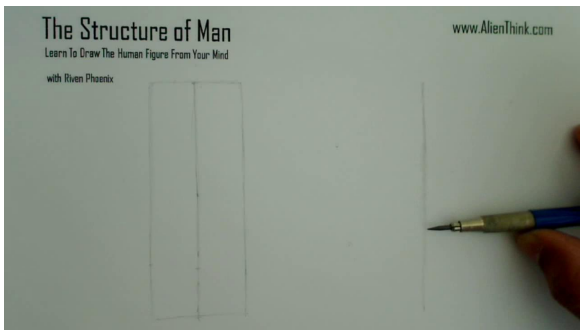
29		And this will give us enough room to make sure that the thumbs don't collide.
30		Okay, so here I'm just going to mark draw out really just another straight line going down this way over here.
31		Right, and then here we can just pick up the width from here and just be approximate with that.
32		Yeah, that's how it's going to be over here.

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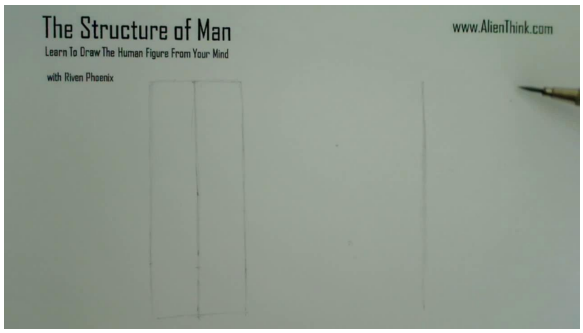
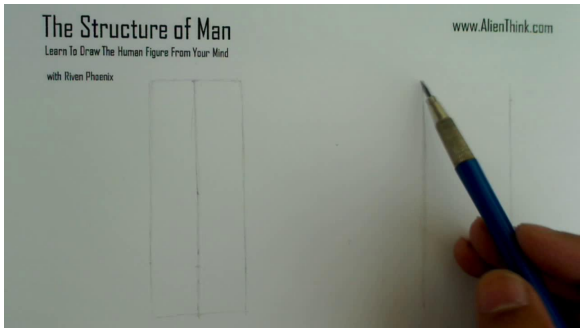
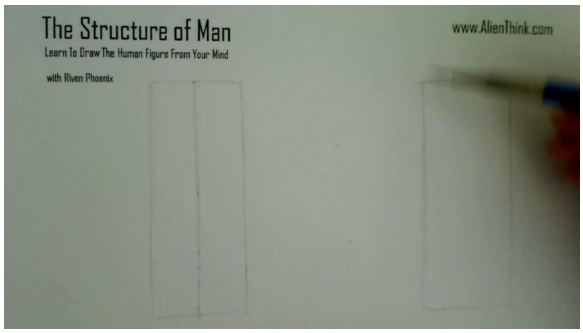
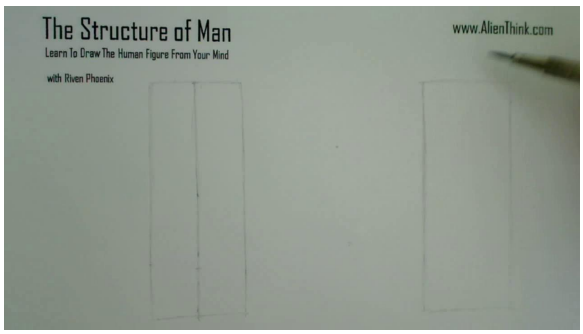
33		Right, and then here just do the same thing, just do it lightly going down like this.
34		Right, and then we can just close off this area to like this over here and then close this off here.
35		Right, so you can just zoom out and make sure you're getting it right.
36		So here I'm just going to divide this in half over here also.

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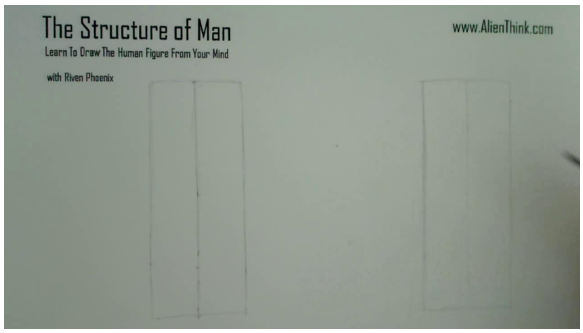
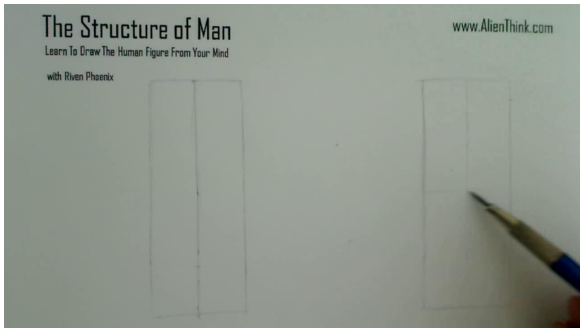
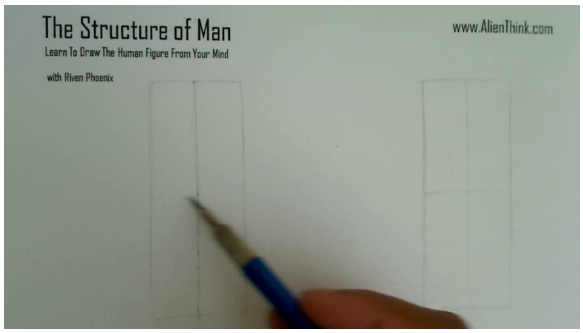
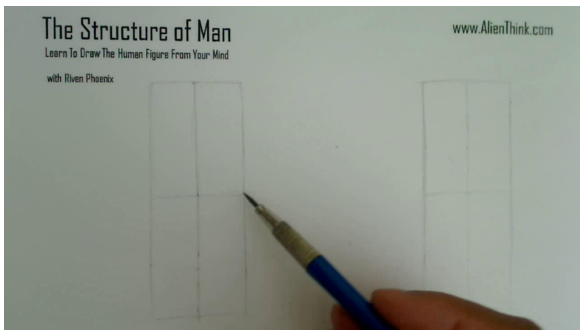
37		Okay, and then we know that in the formula case, we're just going to first divide this in half.
38		And as soon as we do that, we just figure out the palm size over here.
39		Right, and we can do the same thing over here.
40		Very easy.

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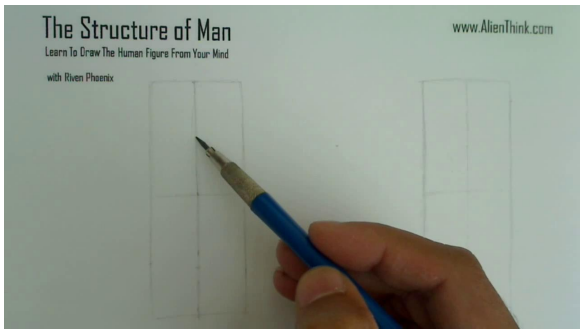
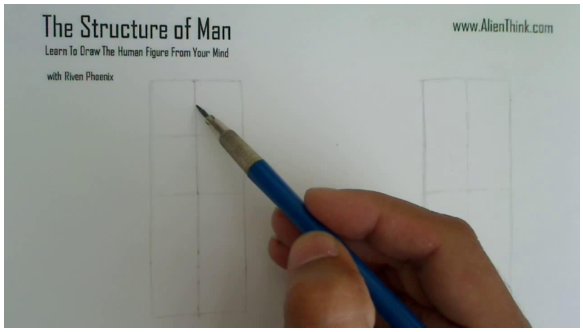
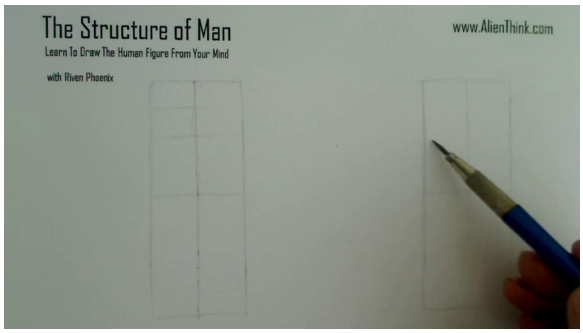
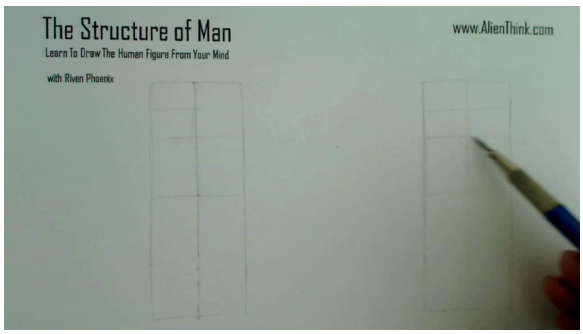
41		So over here, we're just going to divide this in half over here.
42		And then when we divide this line, we know that this area here is going to be the wrist area.
43		Do the same thing on this end over here and do the same thing on this end over here.
44		Just lightly pull these concepts down, put these concepts down.

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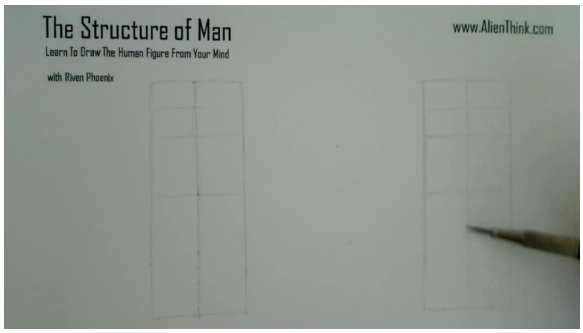
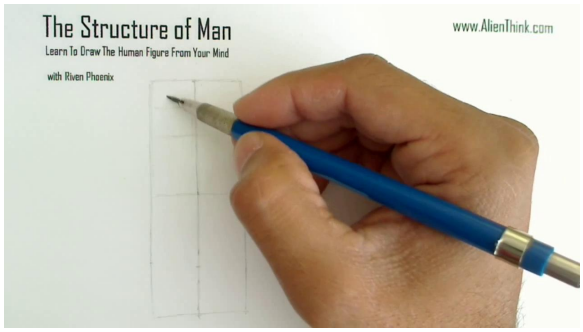
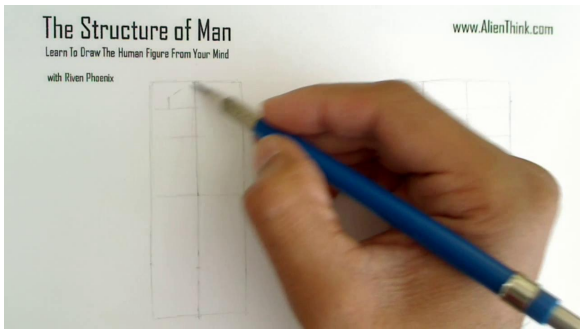
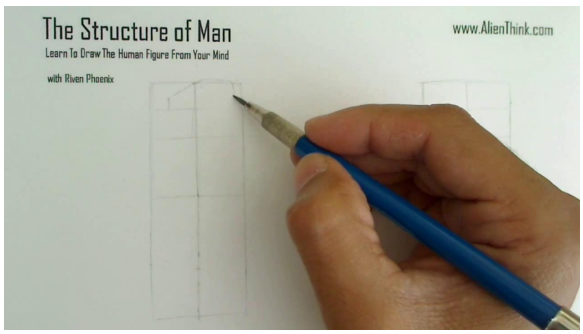
45		Okay, so here what we need to do is draw out really the area for the wrist.
46		So here we know that right halfway here, I'm going to get this line over here.
47		He's going to kind of like curve up and then where this is halfway here, I'm just going to come down like this.
48		And where this is, it's just going to go into peak out and then come back in.

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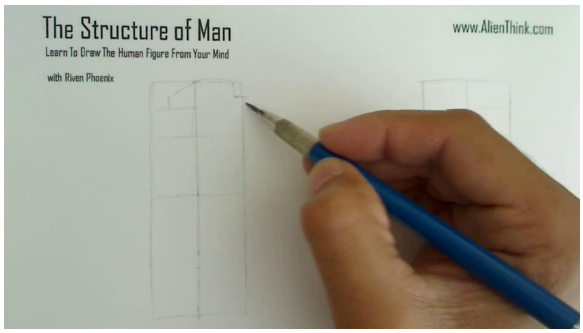
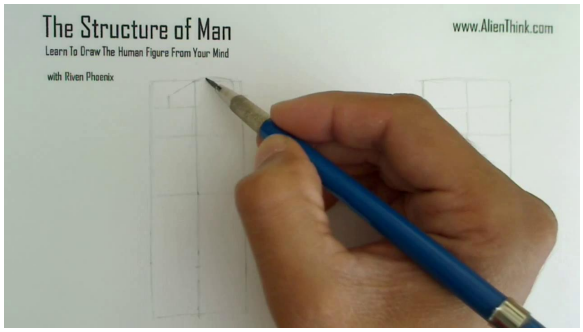
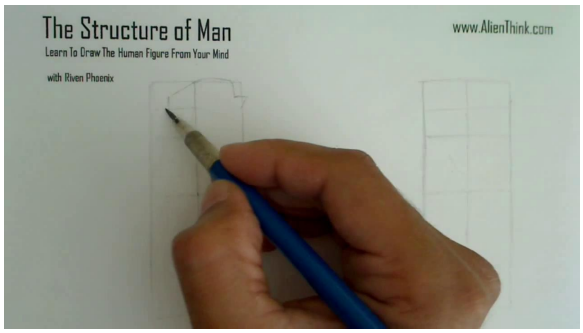
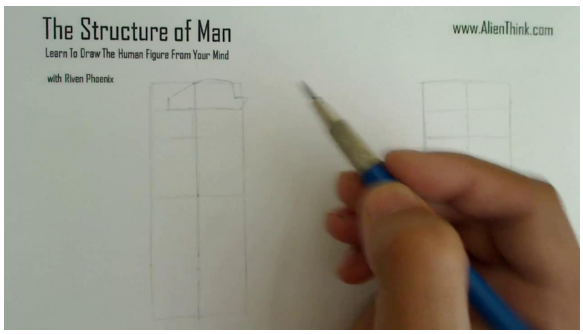
49		This is where the thumb bone is going to join.
50		It's the bone structure that we're creating.
51		So this gives us the wrist over here.
52		Right, so what this means is that we already know right the.

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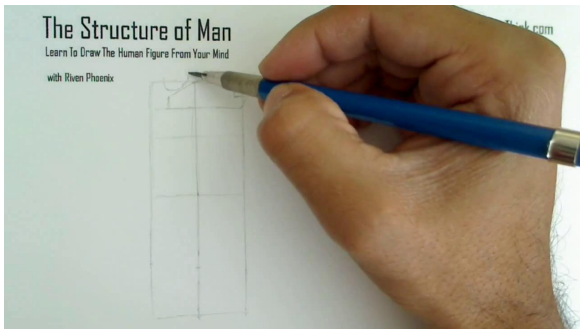
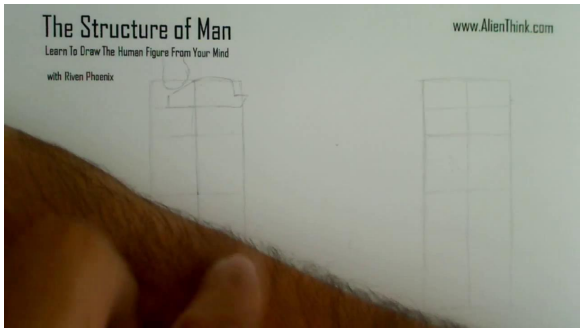
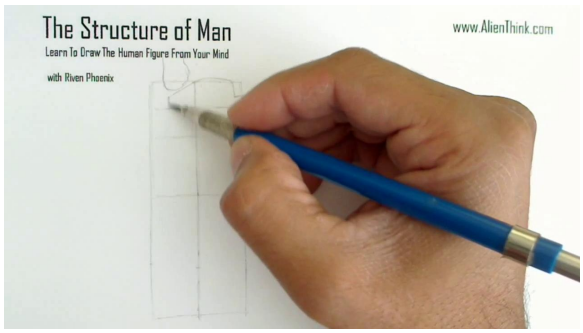
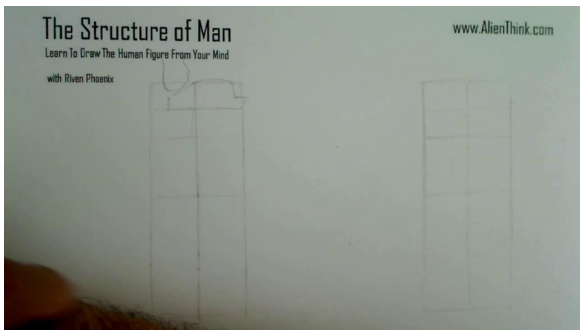
53		The all not is just going to be like this because it's going to give us this guy here.
54		This bone over here, you can see it's because of this all not.
55		So you can see there's a space here just over here.
56		You can see there's a, I got the bone over here.

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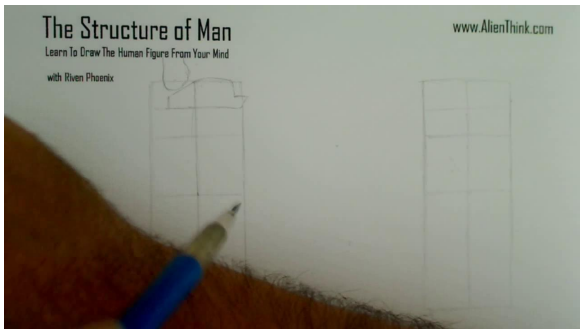
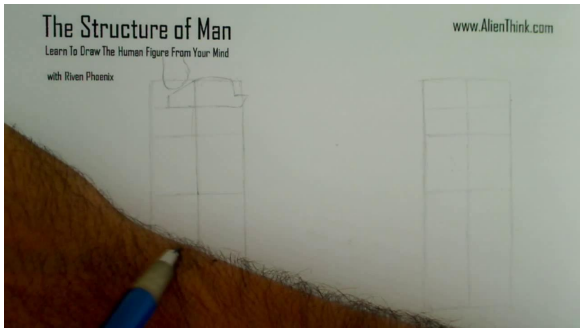
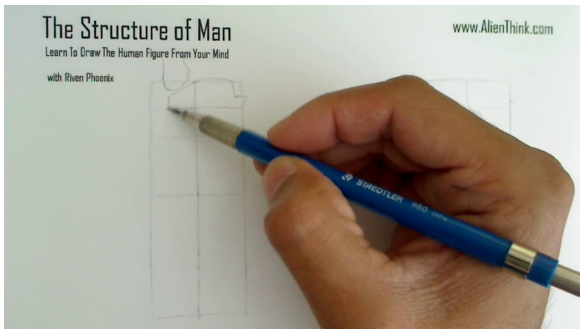
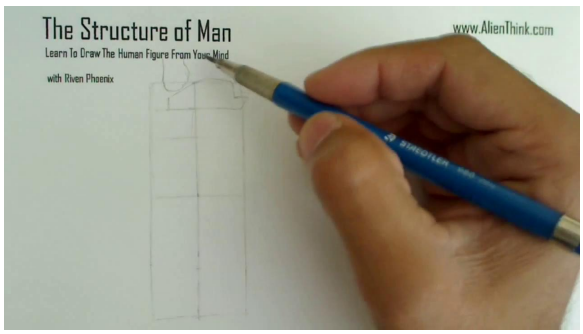
57		See this is the bone over here.
58		I got a space then the palm and this is what's going on.
59		This is causing it.
60		And over here, we know that right this is just going to be the radius going like this and connecting.

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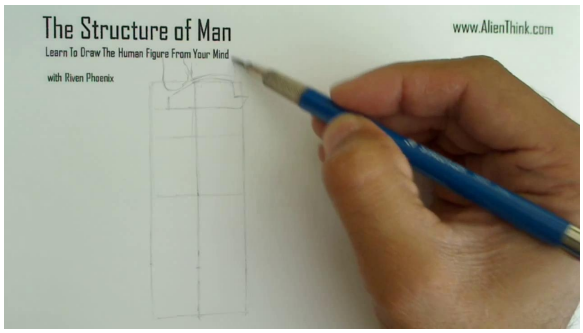
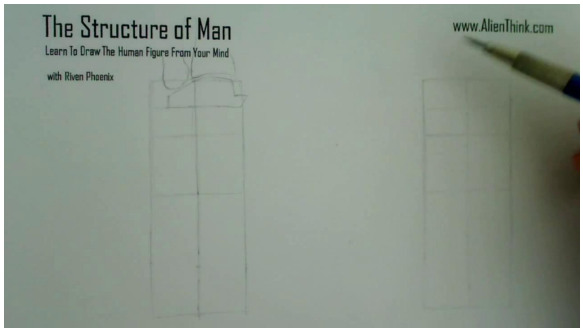
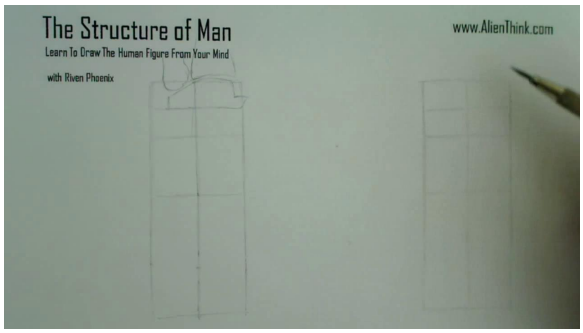
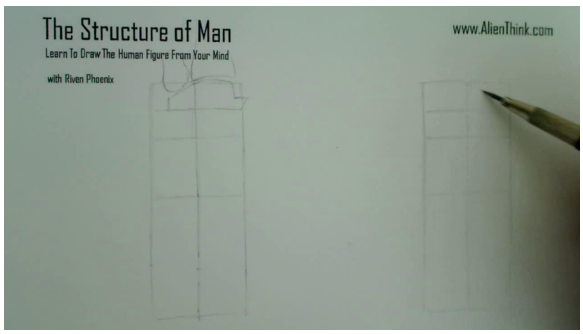
61		It's just going to go about its business up.
62		And over here, we just have to do the same thing repeated backwards.
63		So we know that, okay, well, it's just going to be halfway here.
64		He's going to want to come up like this and just where this is, right, this is not half.

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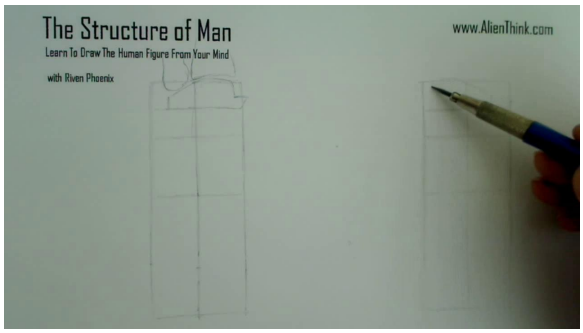
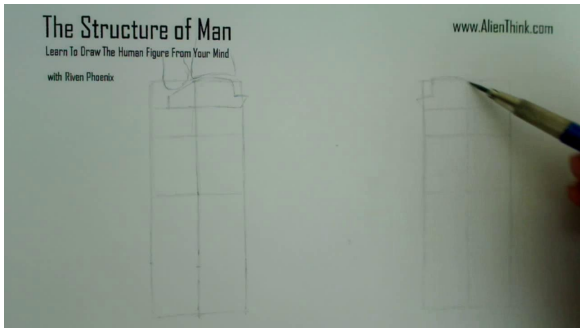
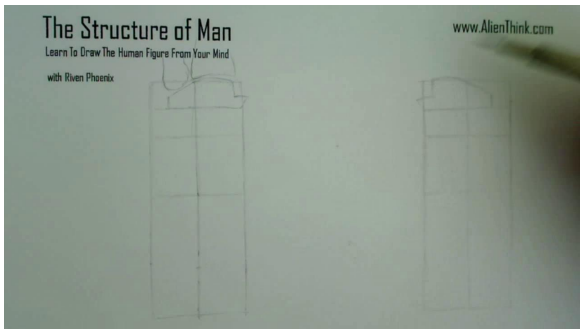
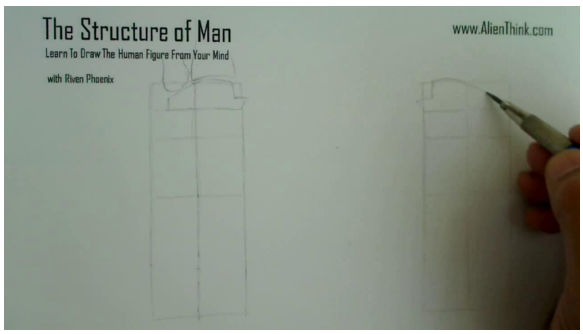
65		This goes like this. He's going to peak out and he's going to want to do the same thing.
66		And he's just going to become a wrist here also.
67		It's the same idea just flipping it around.
68		But this is the palm of the hand.

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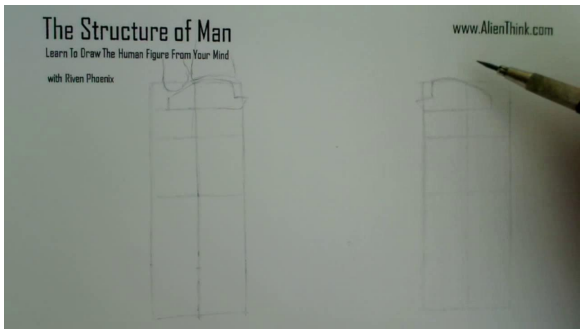
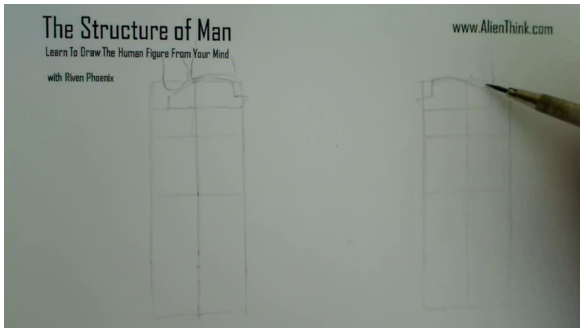
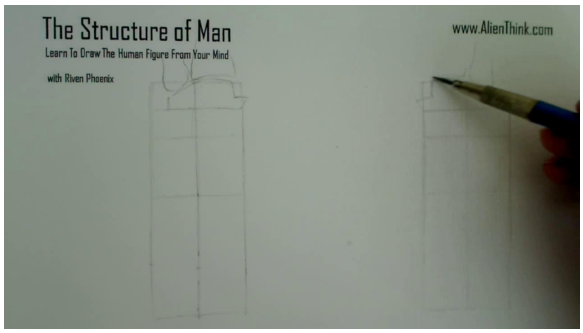
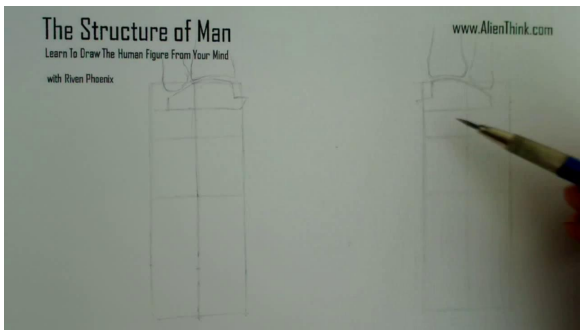
69		So for this, we know that, okay, well, the palm of the hand, I know we know how this is going to work.
70		I'm just going to get the, I'll learn like this over here.
71		Then I'm going to get my radius that's just going to go about its business over there.
72		And that's it.

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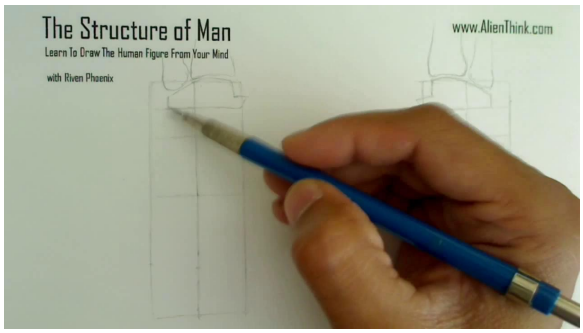
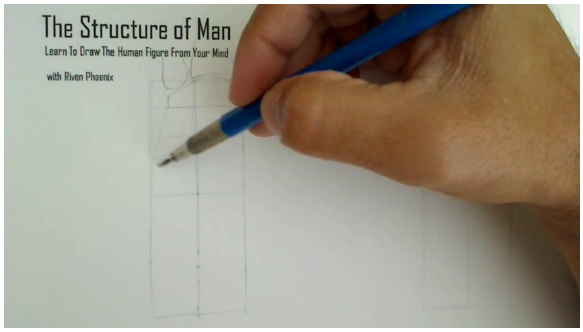
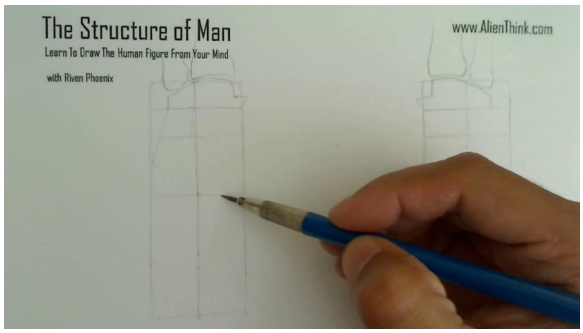
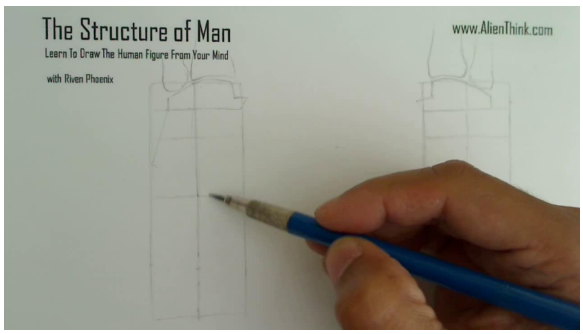
73		So the next thing is we know that, okay, where we have to have over here, we just do this over here.
74		We know where the middle finger is.
75		If you do, if you go coming the middle over here, you go here.
76		You know that the line for the middle finger is here.

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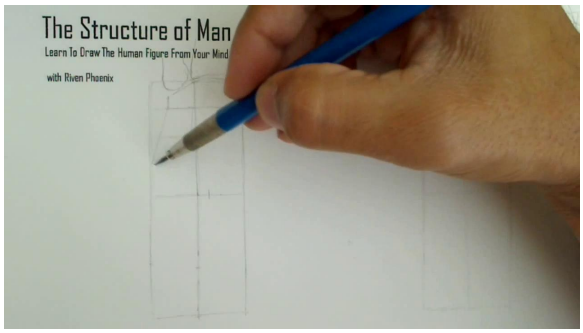
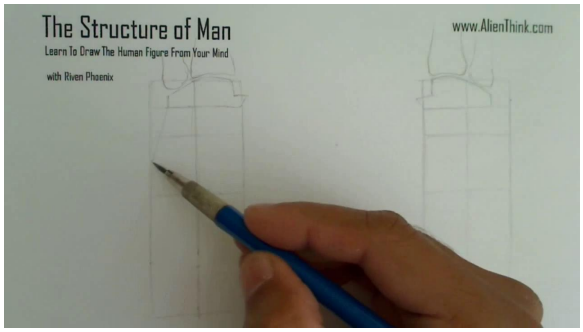
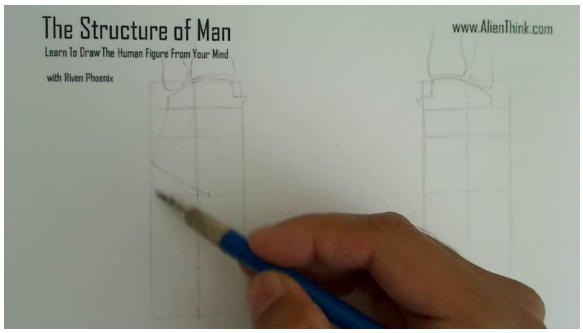
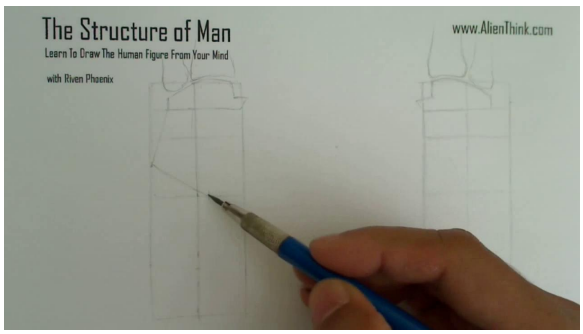
77		So you basically just do like this curve over here.
78		Look where I am.
79		From here, I'm coming to the middle.
80		And then where this middle is, I'm just going to come here a little bit above.

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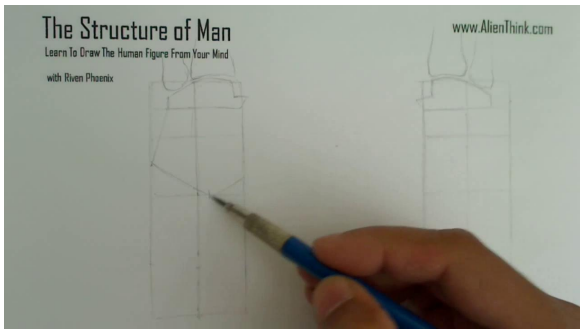
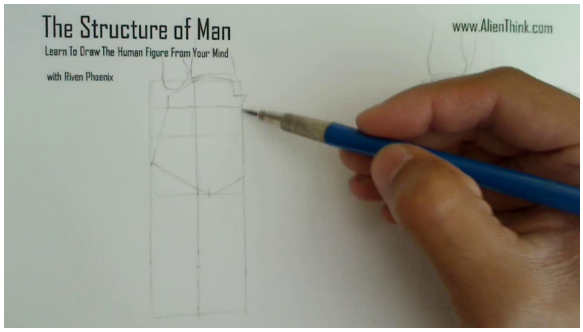
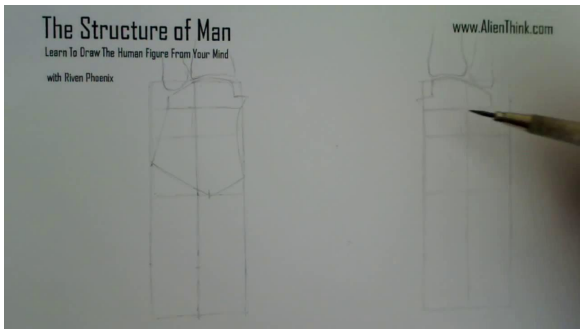
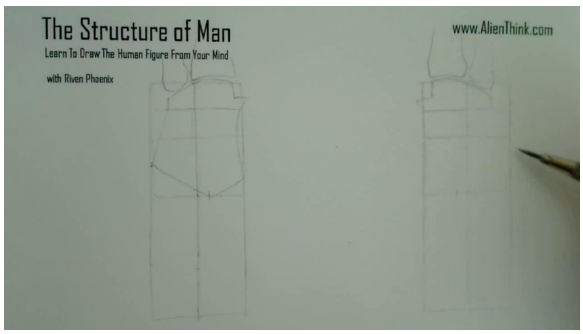
81		And that's it.
82		We get this angle here that gives us the palm.
83		Doing the same thing here, the middle finger is going to be now over here.
84		So from here, we're going to get this like this.

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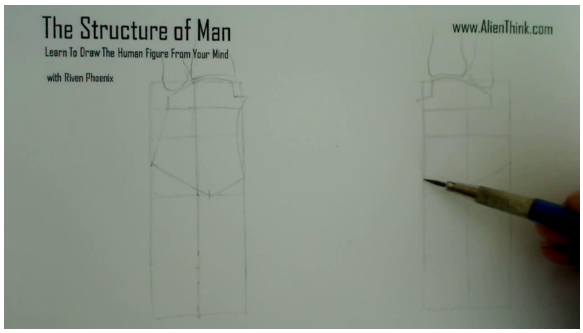
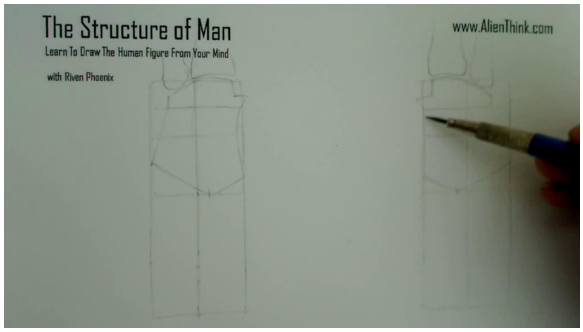
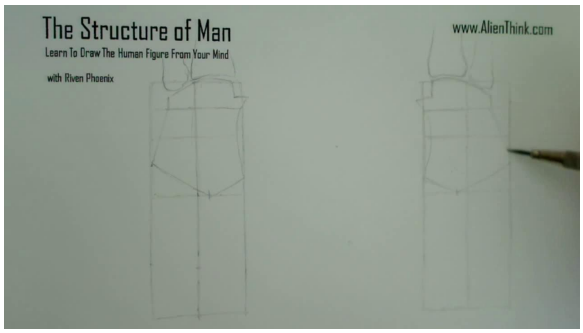
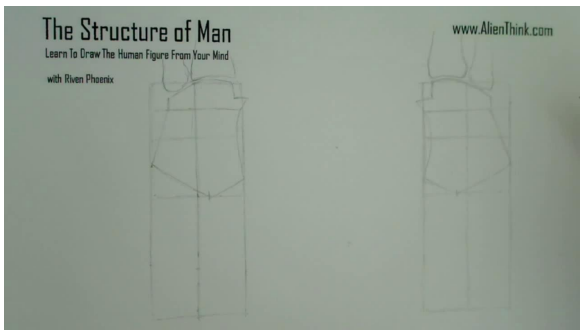
85		And then over here, we're going to get pretty much this guy coming around here.
86		And I'm going to get this over here.
87		And we got the palm of the hand over here.
88		Very easy concept.

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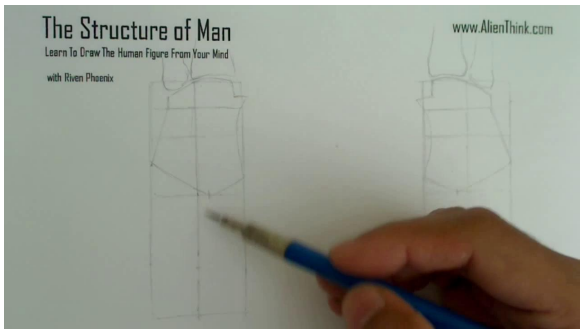
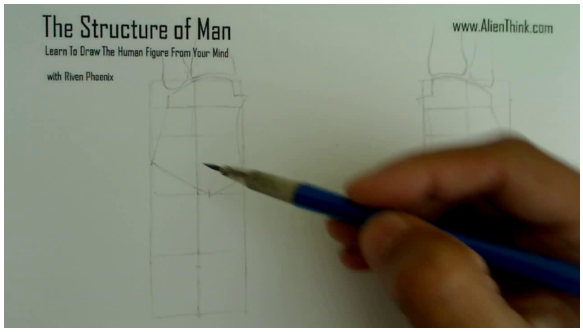
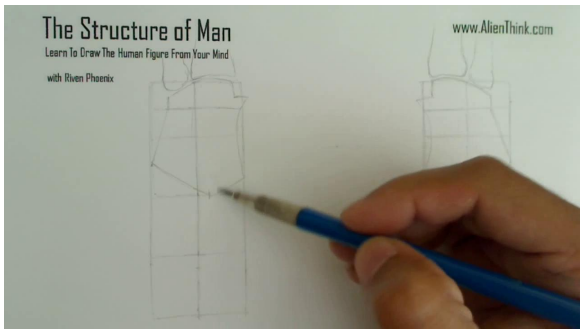
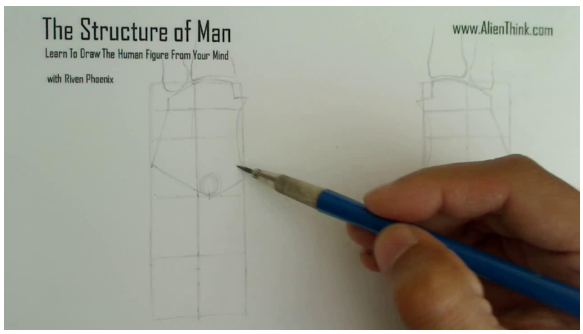
89		So then we get over here, I'm just going to put a line here in the middle, divide this in half.
90		So we know that, okay, well, first we're going to get those ball joints.
91		So here I'm just going to just rough them in first.
92		That we're going to get the ball joints here for these bones for the fingers.

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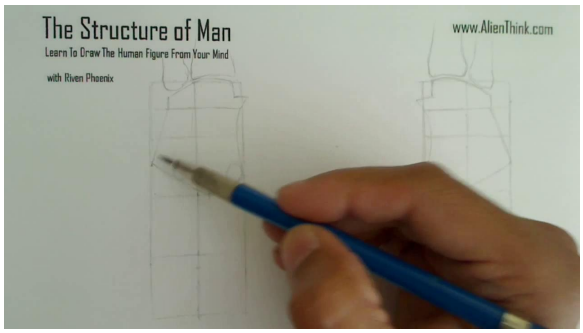
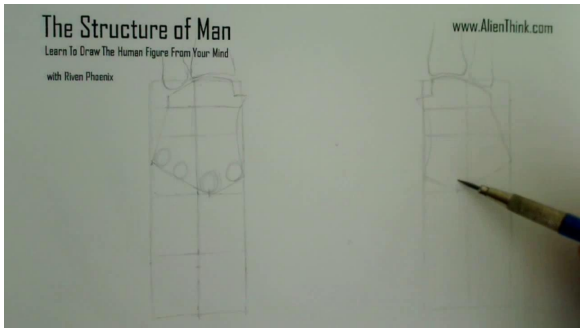
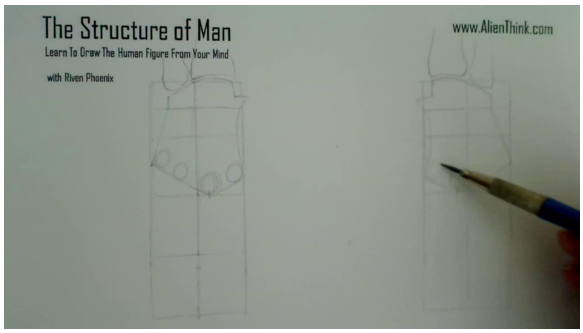
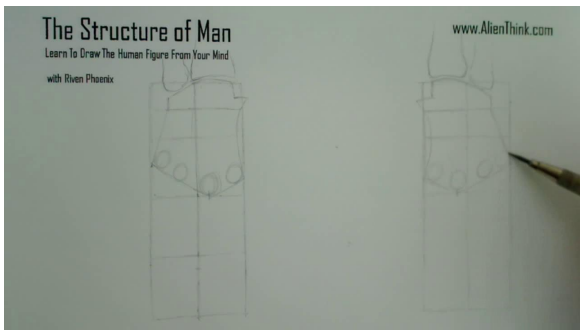
93		And these are inside the palm of the hand over here.
94		Same thing here, going on underneath the arm.
95		Just rough them in first so you can understand.
96		And then we can always come back in our drawing process and then fix anything up.

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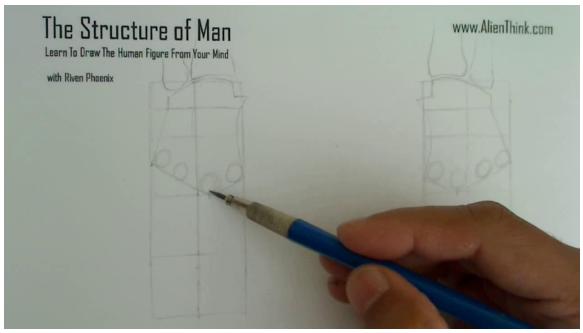
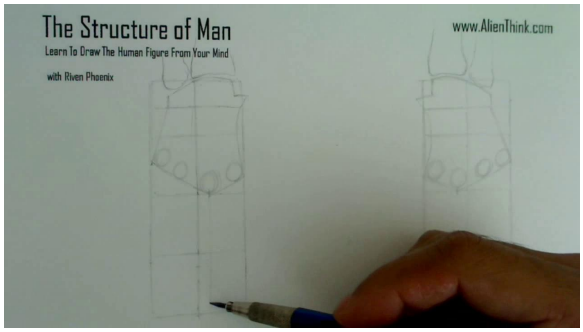
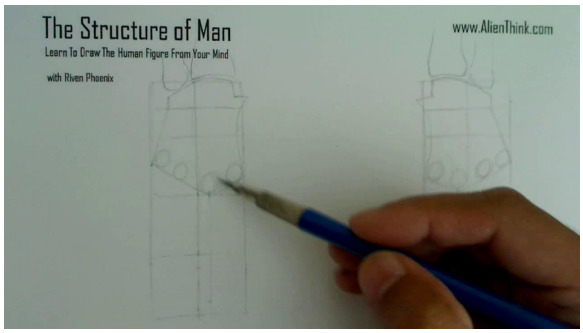
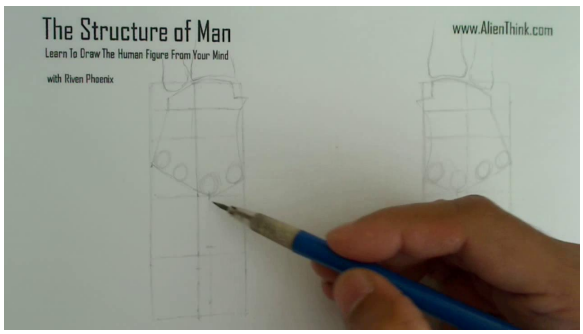
97		So here we know that, okay, well, the middle finger is just going to go over here like this.
98		And we know that it's going to stop here because you're going to get the fingernails over here, right?
99		So this means that we said that, okay, under here a little bit, you're going to get the first bone.
100		And the first bone is nothing more than just a simple idea of this bone structure.

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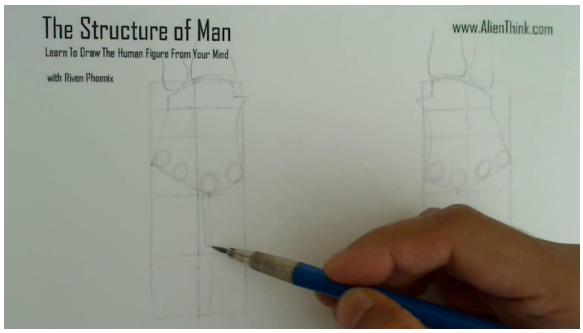
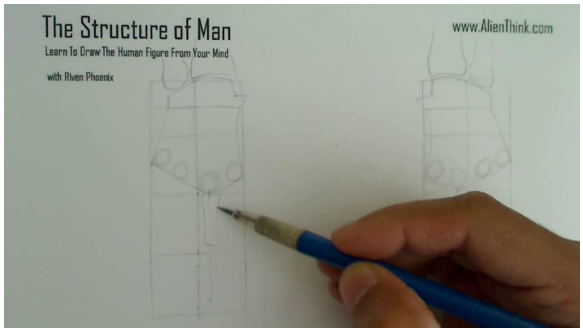
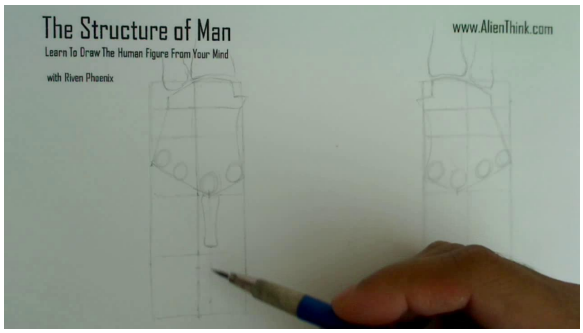
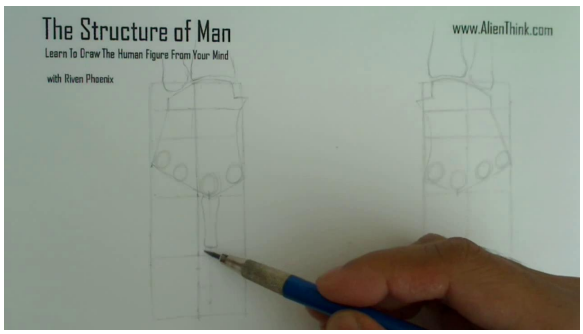
101		It's going to go like this, right?
102		It's just going to be this very simple bone going like this over here.
103		So what happens here is that halfway here you're going to get this other bone.
104		And this is just going to come like this.

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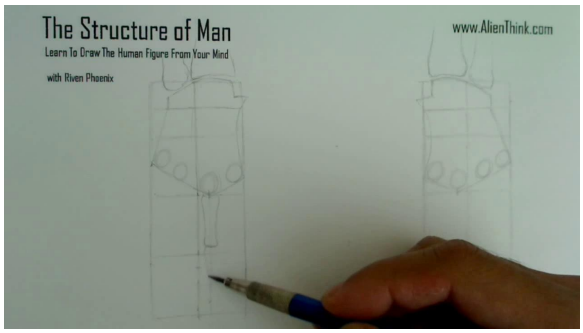
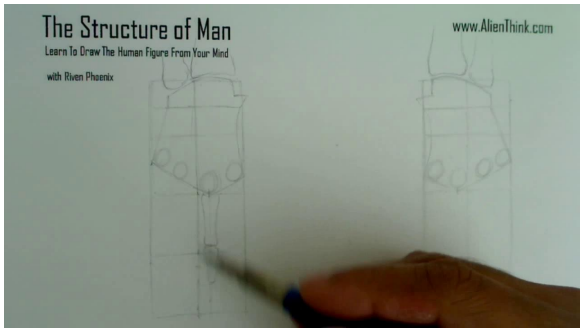
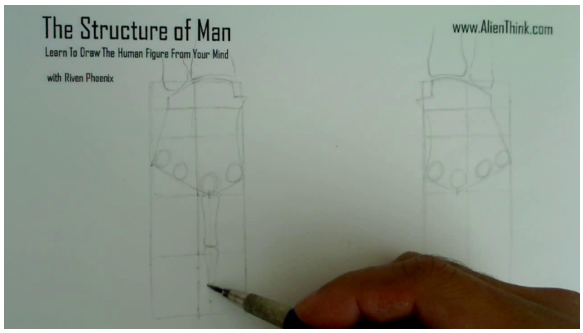
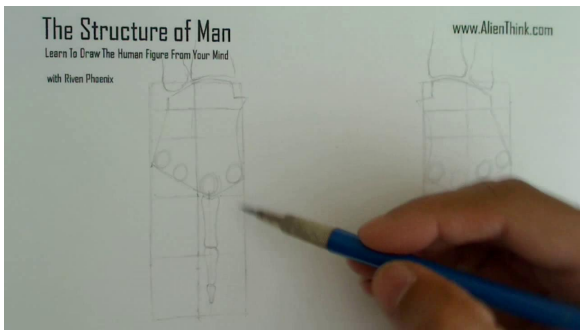
105		It's going to be a little pointy and he's just going to be like this, covering like this.
106		So we got to end over here.
107		It means that we're now going to get this little small guy over here and we're done with this finger over here.
108		So what happens is that now you know about these ratios.

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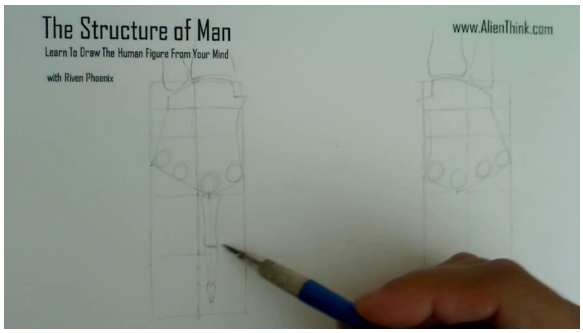
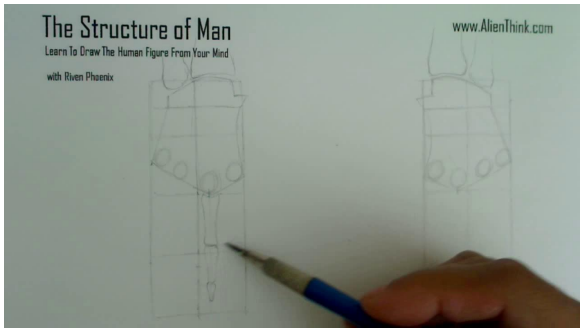
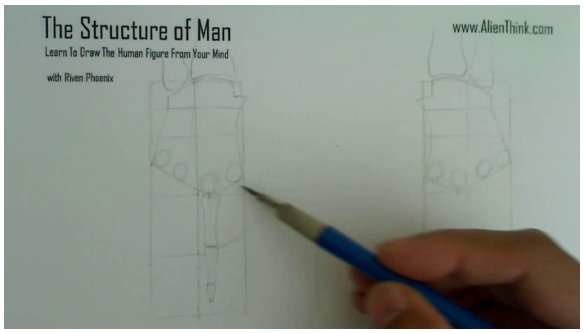
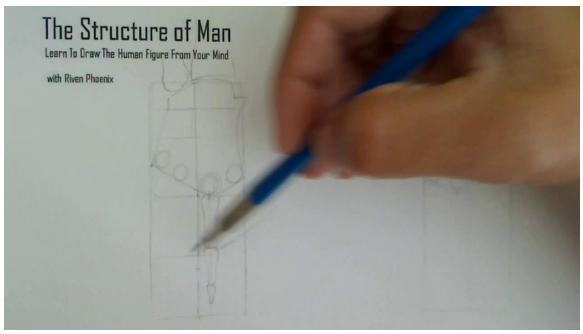
109		It's all about the ratios, right?
110		So you know that, okay, I know that I'm going to get a curve like this, right?
111		So these guys are slowly, slowly, but surely going to meet up together.
112		And if I do a curve here, this guy and this guy, they're going to meet up a little faster, right?

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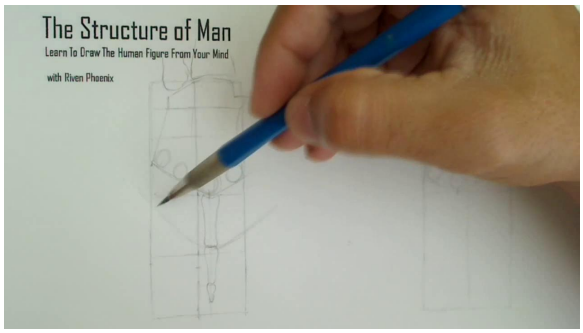
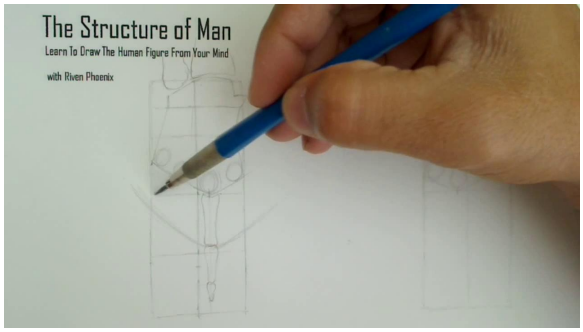
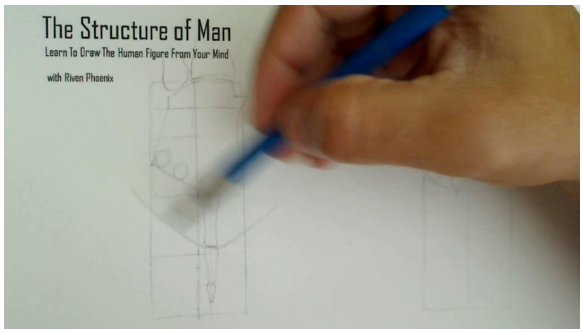
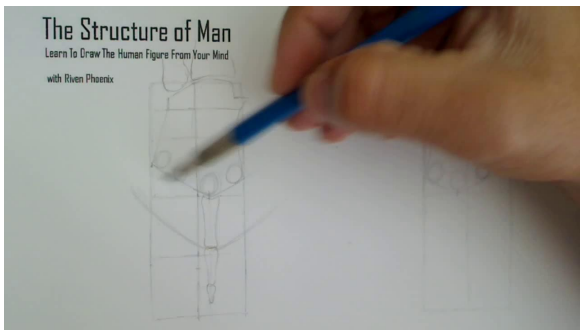
113		So usually when you do this, you do it like this.
114		You're not coming close here.
115		You're just doing it this way.
116		You want to look at, okay?

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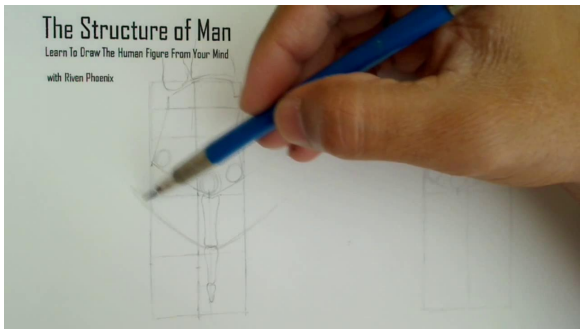
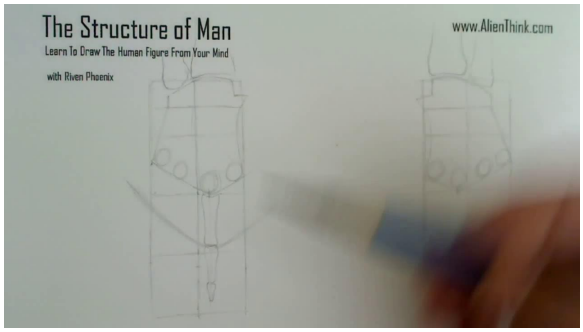
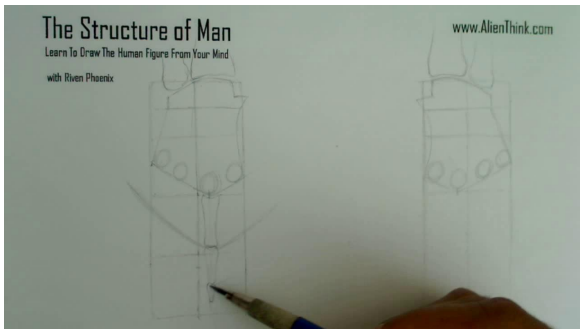
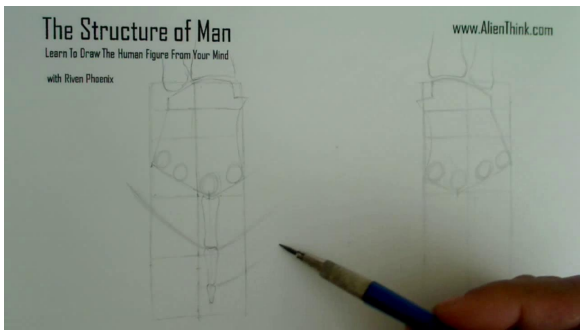
117		They're going to meet much more faster than this, but not that fast, right?
118		So that's the first ratio.
119		The second ratio is the same thing.
120		They're just going like this.

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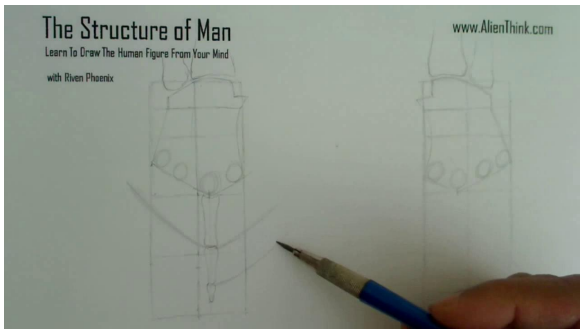
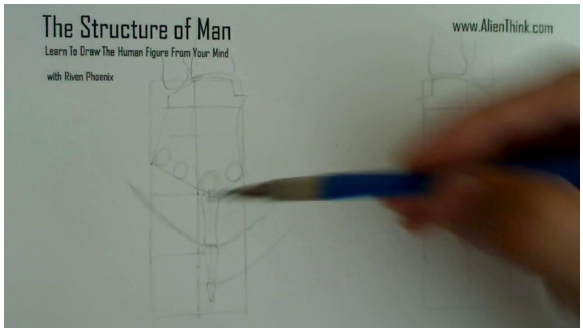
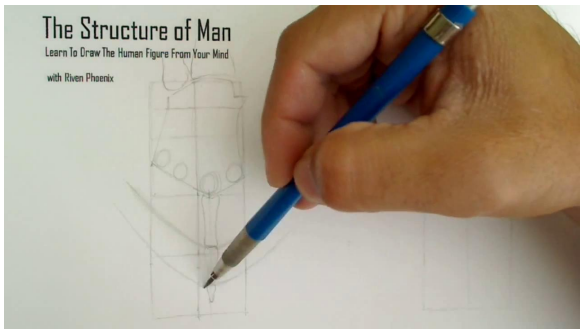
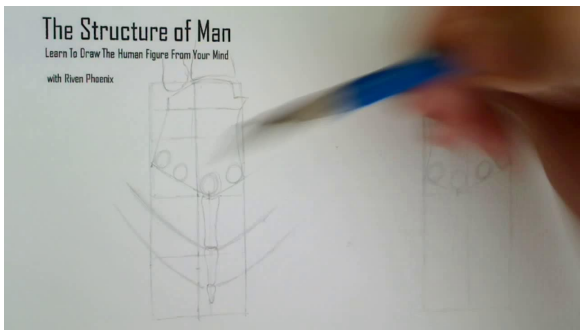
121		They will one day meet together, right?
122		And over here, well, then when it comes up here, we said that, right, they're going to now meet much more faster.
123		Right?
124		It's this ratio system that allows us to understand some of the basic concepts of the hair.

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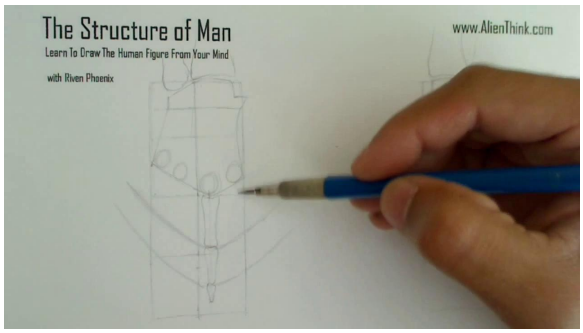
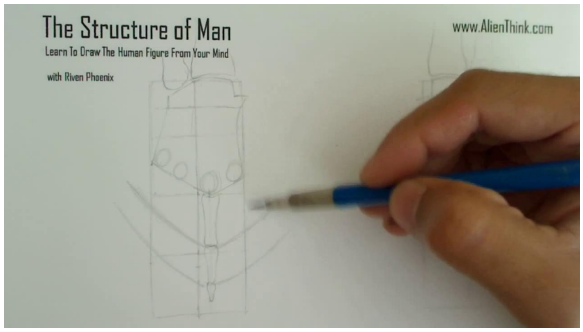
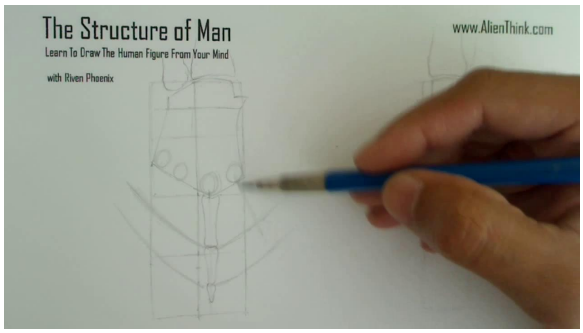
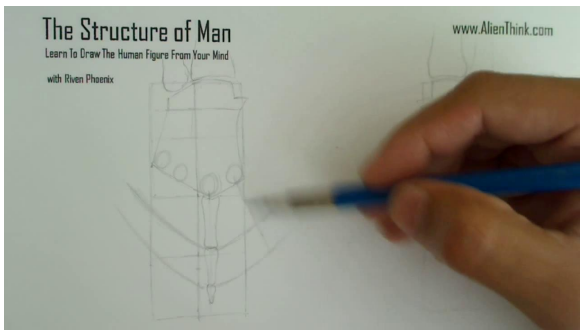
125		So what does this mean over here, bone wise?
126		Okay, so what we need to get used to first is this gesture idea.
127		Right?
128		I'm going to draw this line here for this a little bit and this line here for here a little bit.

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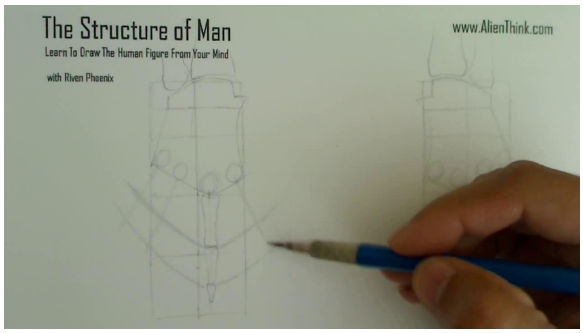
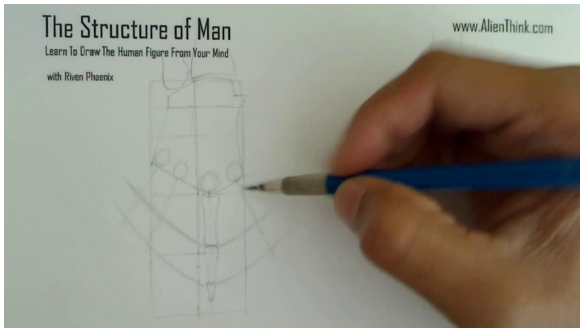
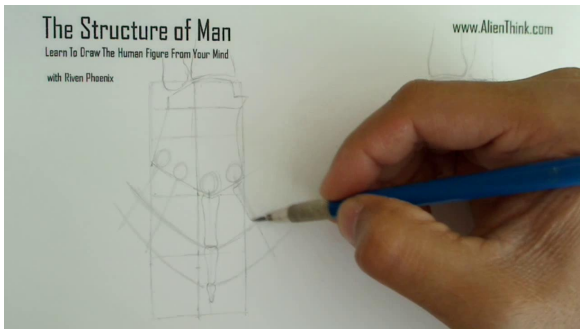
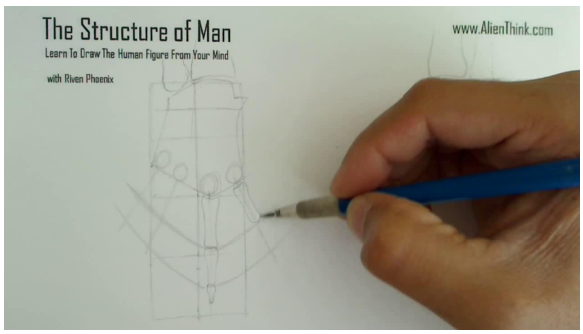
129		You can go out.
130		So I'm going to get, first of all, those bones structure over here.
131		I know that this bone is just going to follow this idea here in the design of the hair, okay?
132		We're taking apart the drawing process that we will need to simplify our lives in and drawing out the hair.

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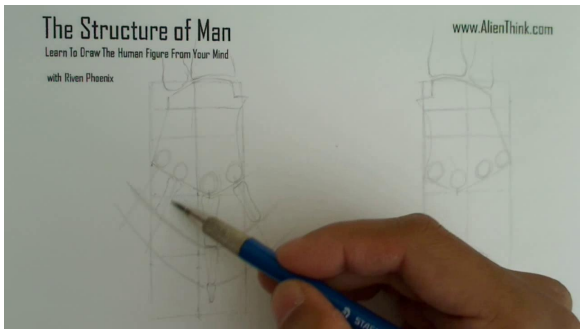
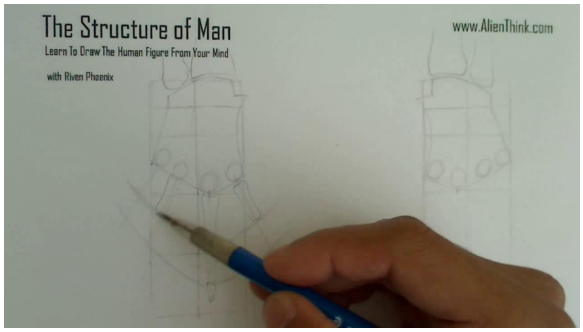
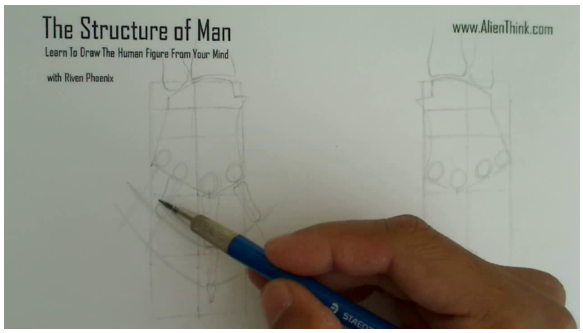
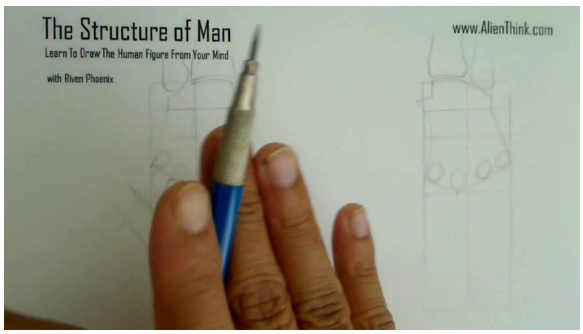
133		Okay, so here we get this bone over here.
134		Right?
135		So we know that the way this works is that over here, see?
136		Over here when you look at it, you know that this bone is always larger than this one a little bit, right?

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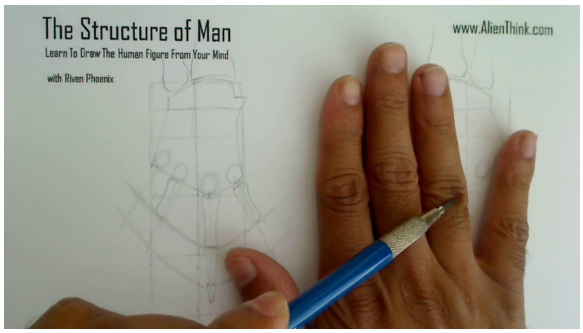
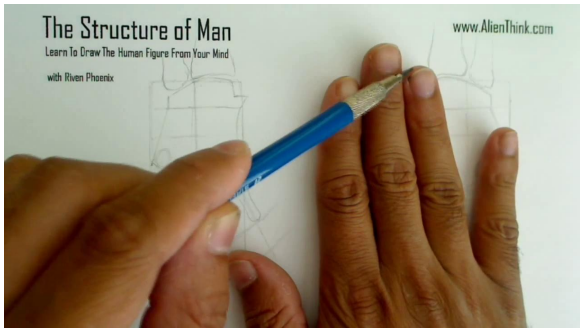
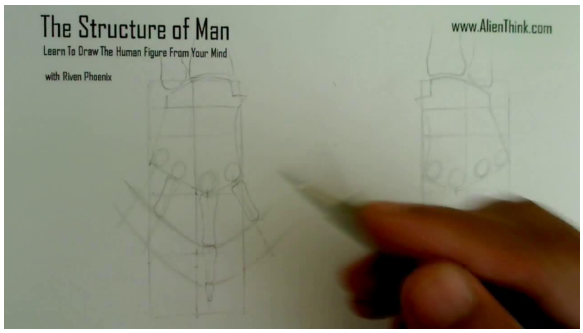
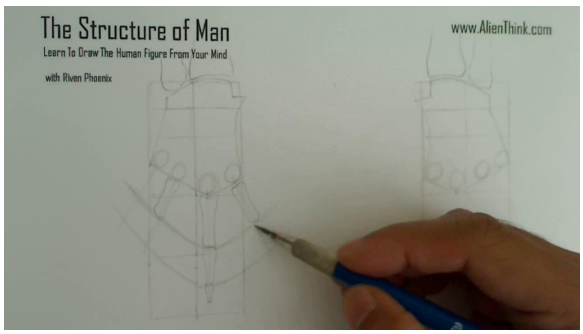
137		But in the end, look, he's always bigger.
138		He's always bigger than this one, right?
139		And you can see this is happening here also because it's this curve here that's doing this odd thing to it.
140		Right?

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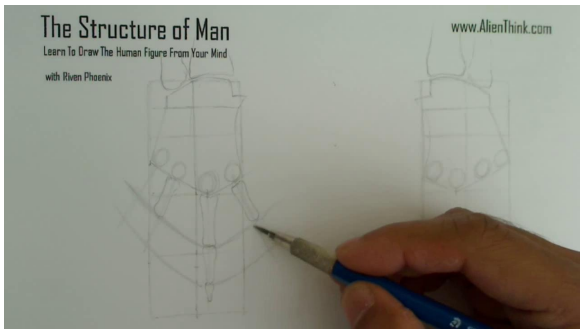
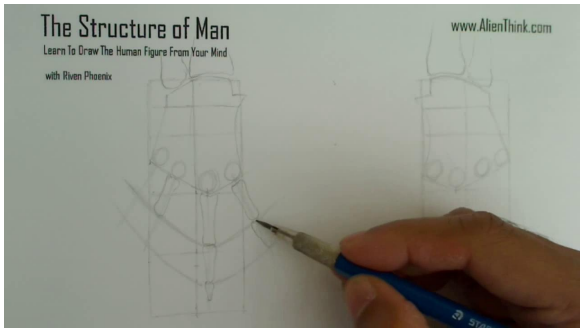
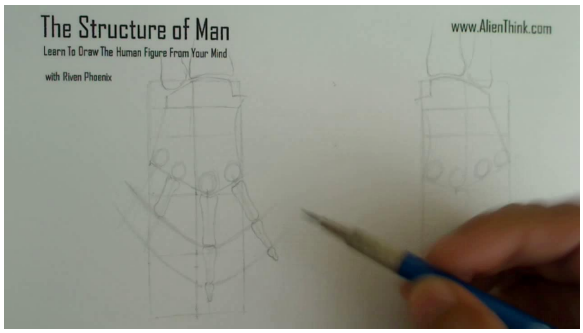
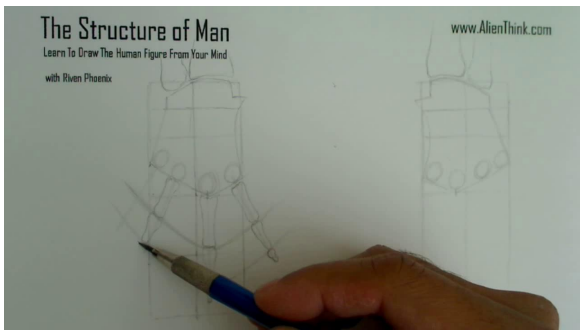
141		So then we know that, okay, well, now I'm going to get this bone and it's going to be just a little bit pointy.
142		It's going to be just a little bit pointy over here and he's just going to become this finger here.
143		But what happens here is that now when this bone comes over here that this is the pointy guy, right?
144		He's going to come out like this also.

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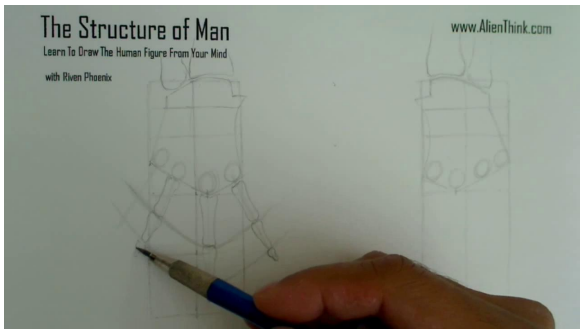
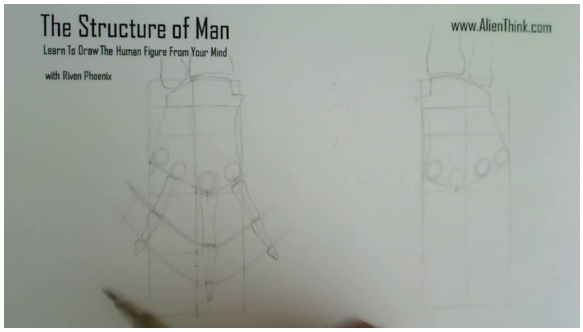
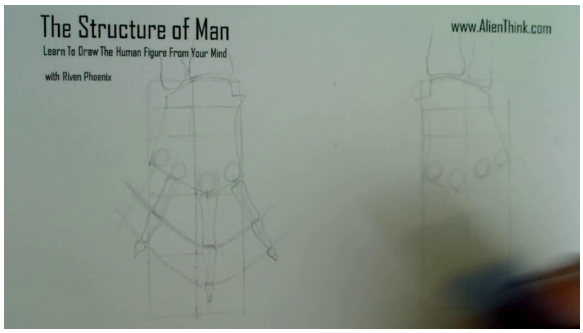
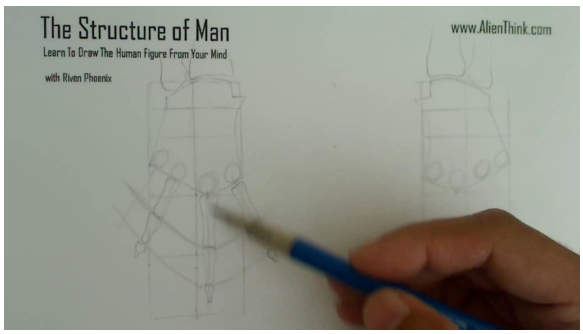
145		Look what happens automatically.
146		He becomes a little bigger than this, okay?
147		So when we're drawing it out in the chest, there's one of the basic things to understand.
148		If I draw the middle finger, I draw this guy's second, then I know that he's going to be a little bigger than this guy, right?

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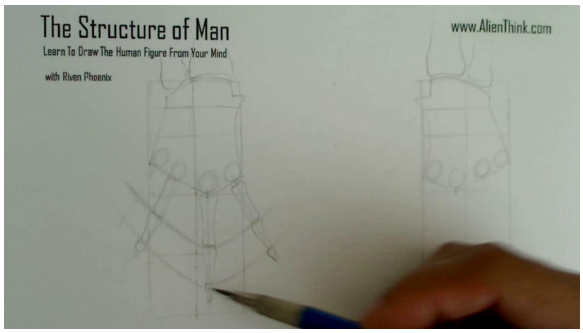
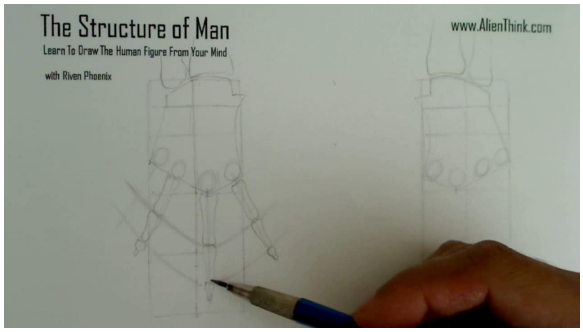
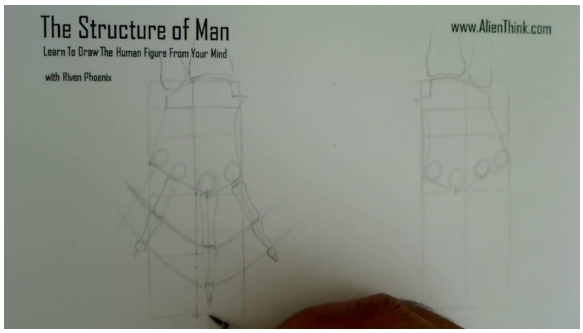
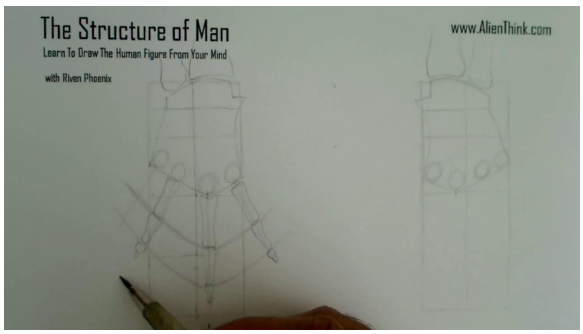
149		And he's the tallest, right?
150		So he's number one.
151		He is number one over here, okay?
152		He is number two in length.

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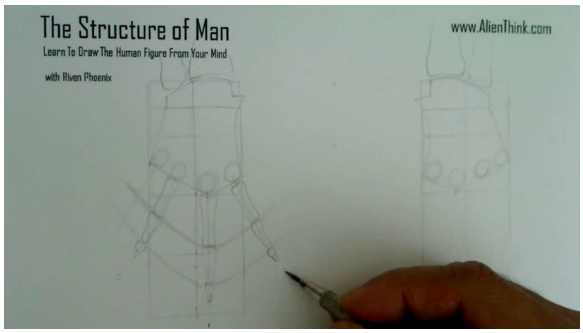
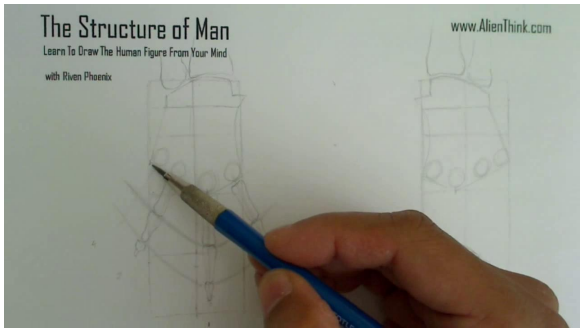
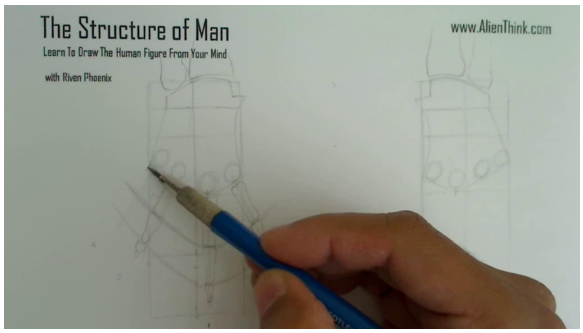
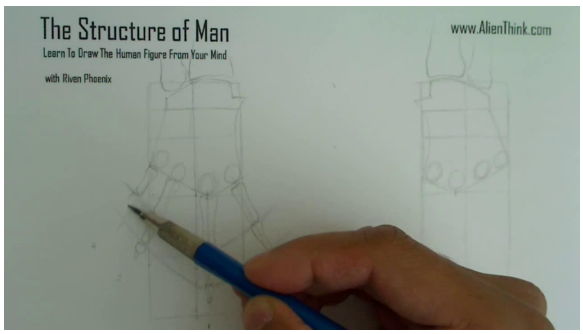
153		He is number three in length and he is number four in length.
154		And this is going to be very easy.
155		You just draw out the bone for this guy just like this and you know that, right?
156		The bone for him is going to do the same thing.

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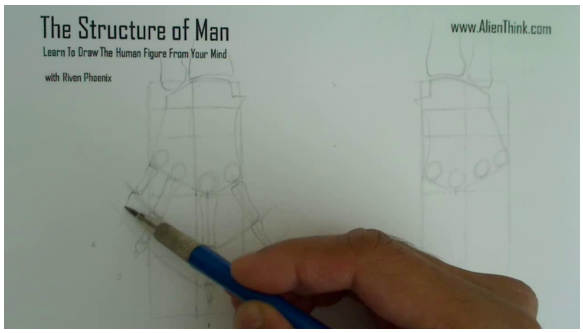
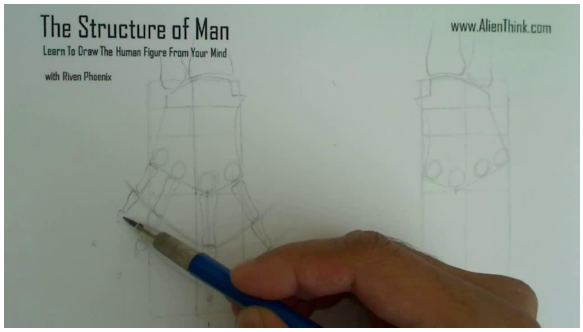
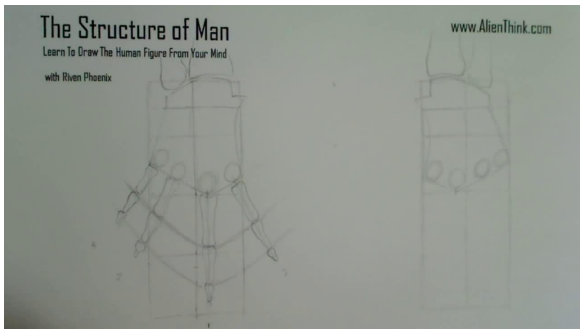
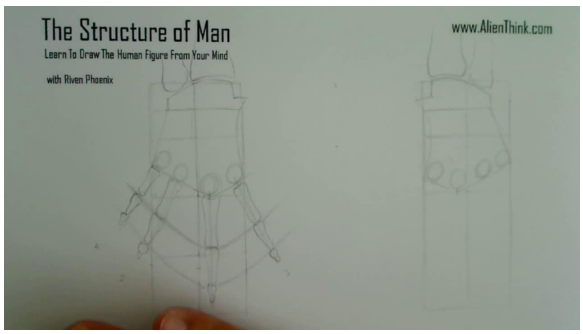
157		Basically just go like this over here and then you're going to get this small bone.
158		So he's your small finger, right?
159		So if you look at how small it is, there's going to be different for everybody, but look where this bend is coming, right?
160		Where this bend is coming is going to be close, right?

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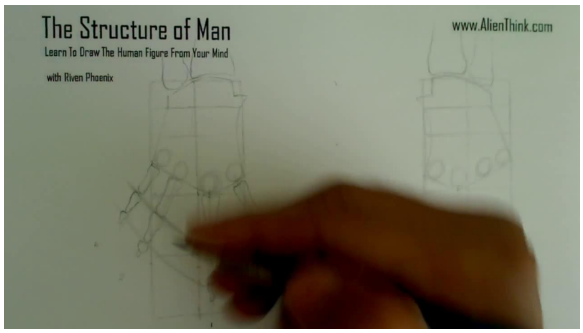
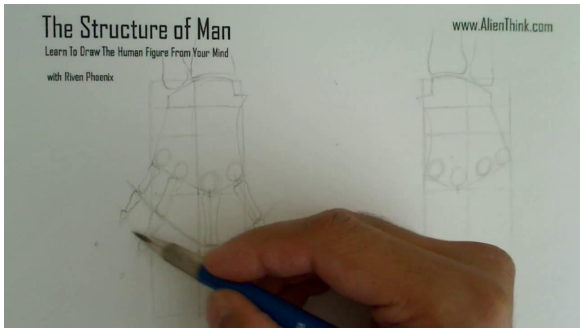
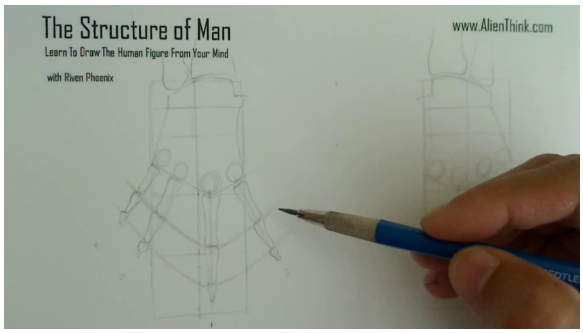
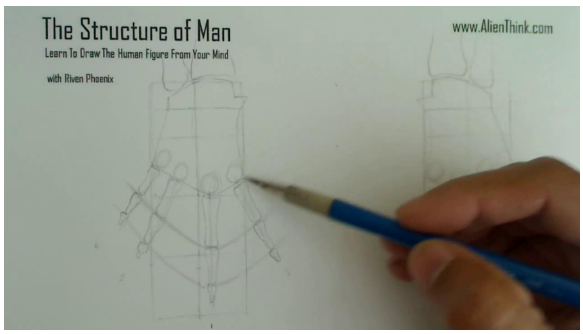
161		So where this bend is coming over here, the finger is going to be close, right?
162		This is all happening automatically because of the way we're drawing this out, right?
163		So what happens with the thumb?
164		So if we take this, this angle over here, just take it down.

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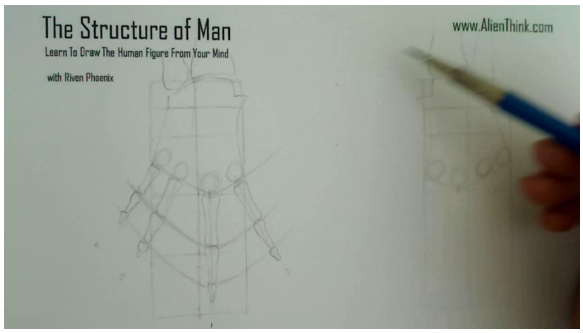
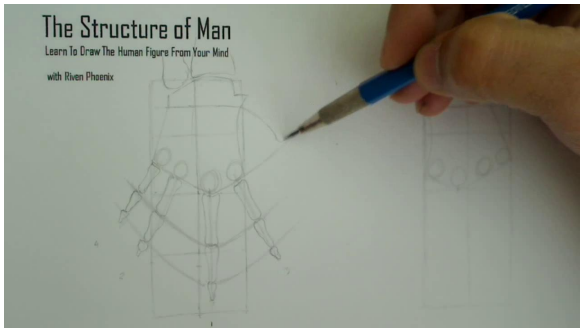
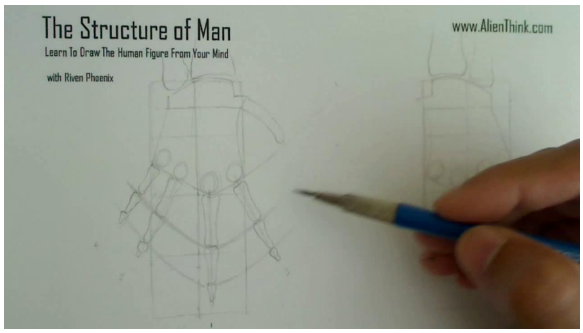
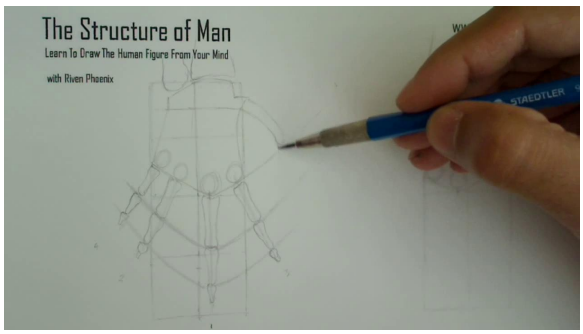
165		We can just figure out basically the idea for the thumb and that is we can just come in a little bit over here.
166		And we're going to get this bone structure just like this that we talked about over here, right?
167		So this means where this line is that this guy is going, the thumb is just going to be ending over here.
168		So the thumb is now just, we're just going to say that it's going to be like this.

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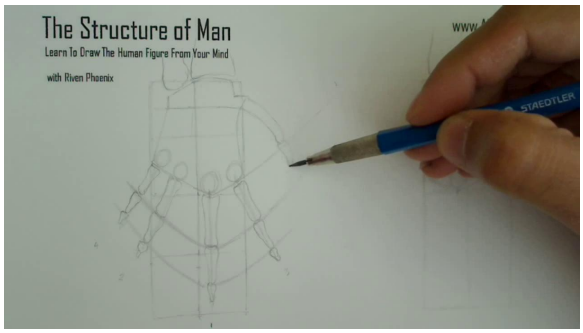
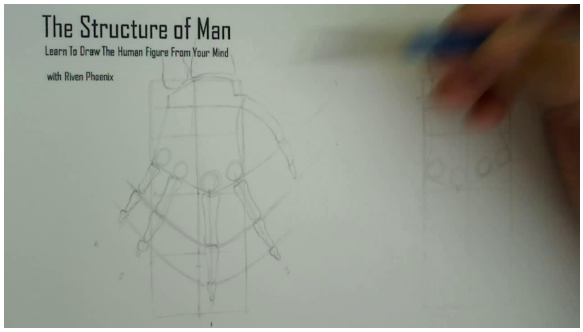
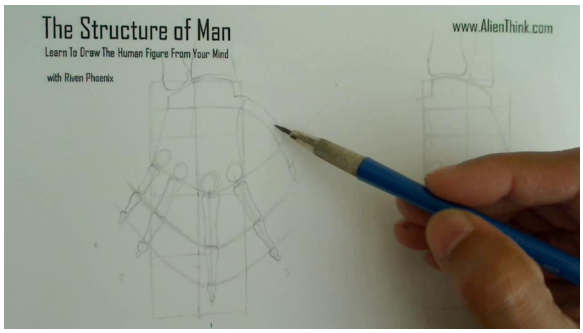
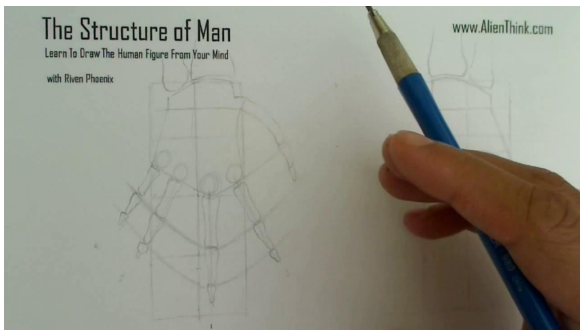
169		And then you're going to have this little small bone, right?
170		Look at the understanding of this.
171		The thumb here, over here, this is the palm, okay?
172		Over here, this is that bone that that sticks over here.

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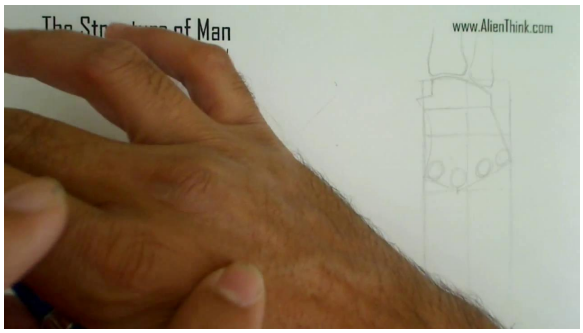
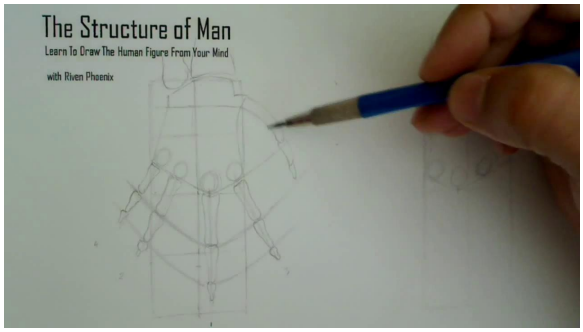
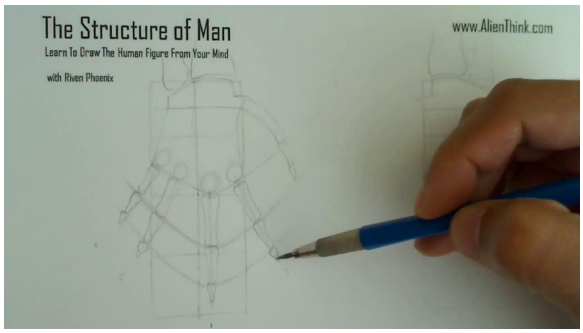
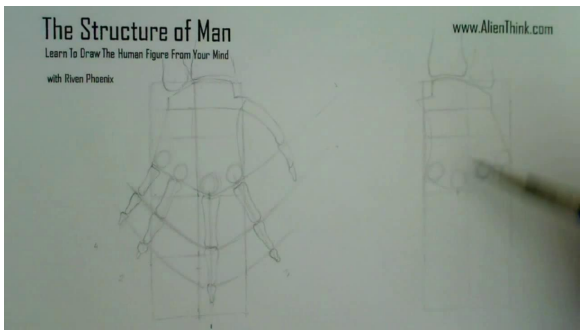
173		And this is this bone here, part of the palm that's here.
174		So the thumb always gets two, everybody else gets three.
175		It's a basic conceptual understanding of just this fact.
176		Okay, so now let's do the same thing.

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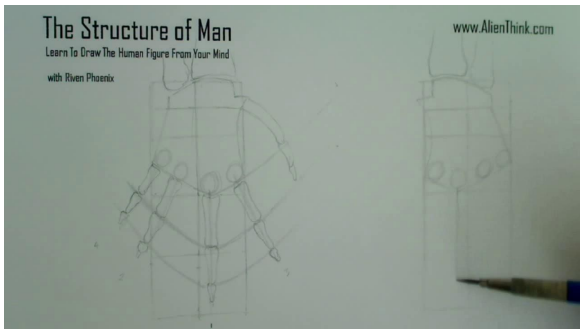
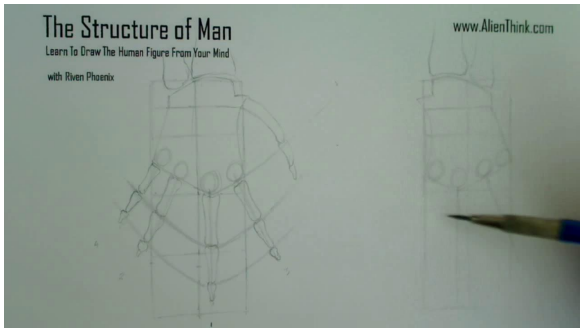
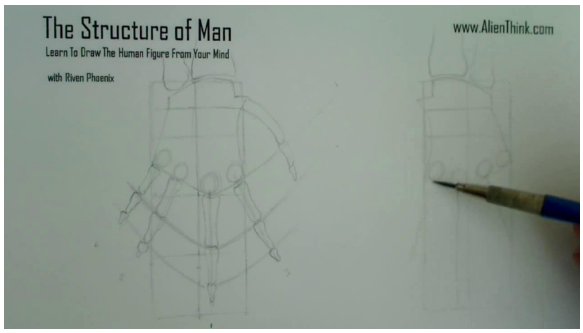
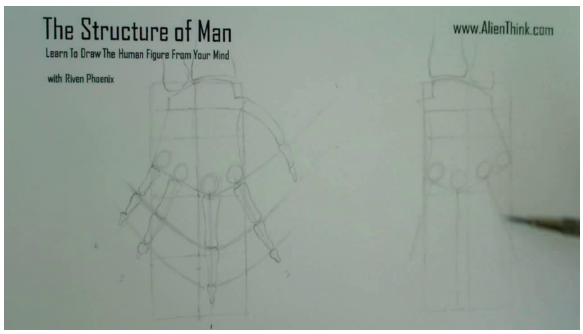
177		Now let's see that we'll be able to do this much more quicker.
178		We can first visually see that right.
179		I'm going to draw this.
180		He's going to be a little bigger and he's going to be like this, right?

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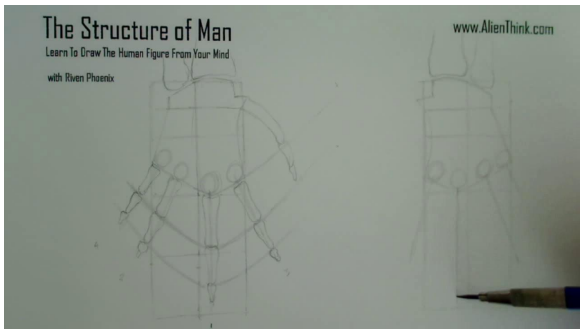
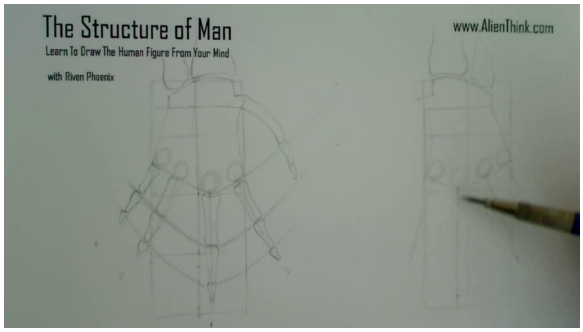
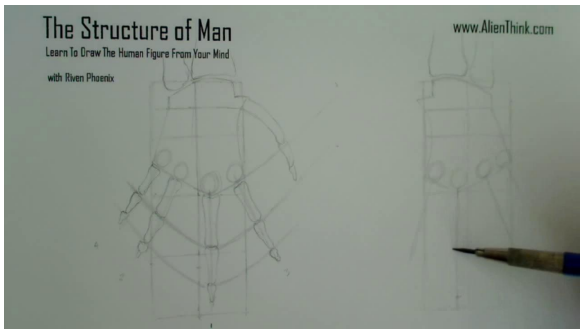
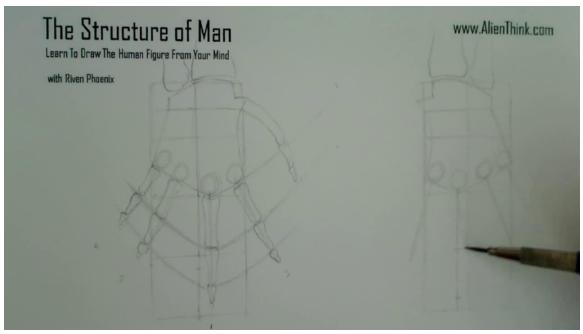
181		So I know that over here, it's really going to end a little bit anyways over here, right?
182		And we know where this division is, right?
183		We know that the bone is going to be here.
184		So if we had this bone, we know that it's all about the ratios, right?

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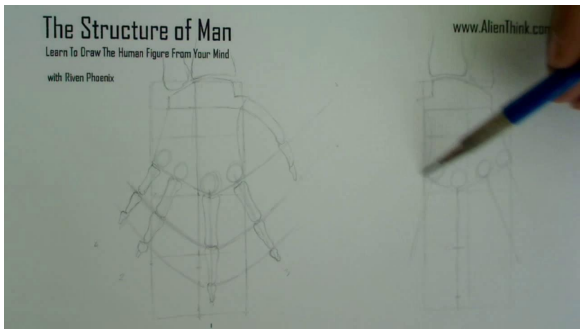
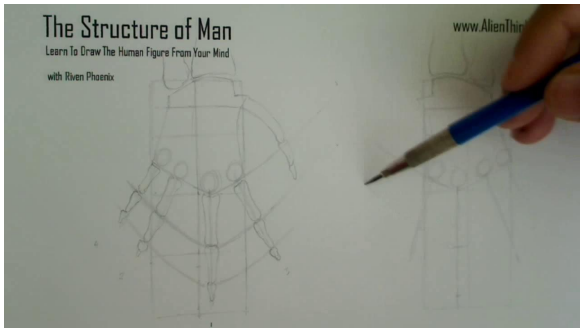
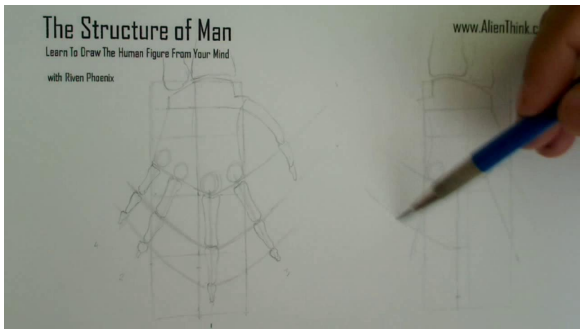
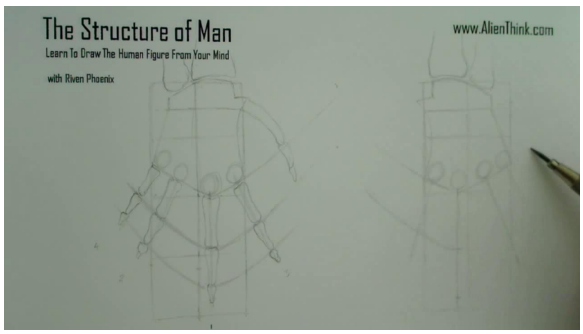
185		This guy is just going to be coming like this.
186		One day they will meet, right?
187		It's going to take a little bit of time to do that.
188		And over here, we know that, right?

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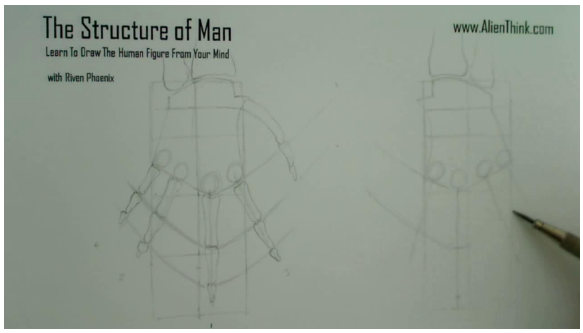
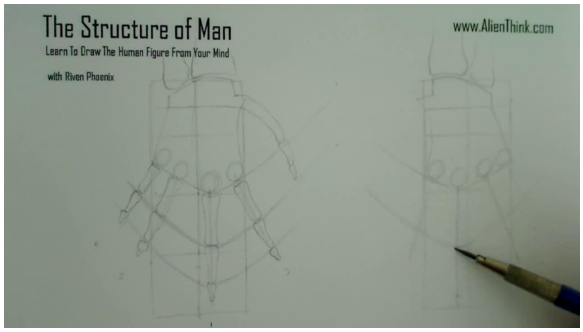
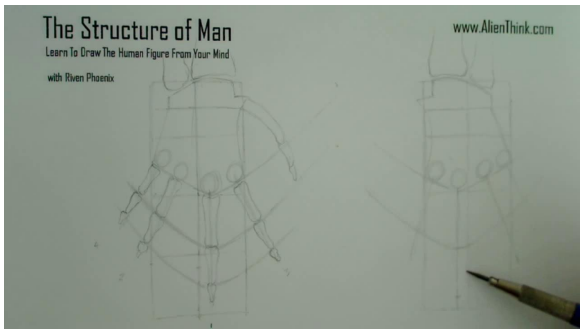
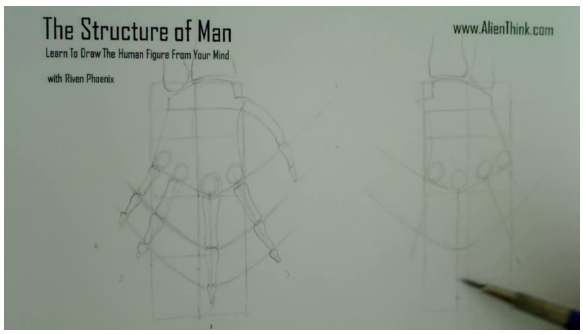
189		They're going to meet much more earlier, right?
190		And then over here, we know where this is.
191		We had said just halfway over here, right?
192		You can just wing this and say that, right?

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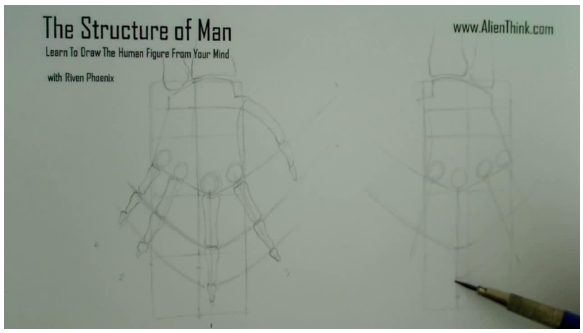
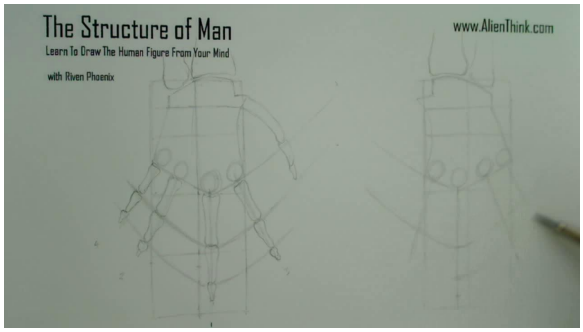
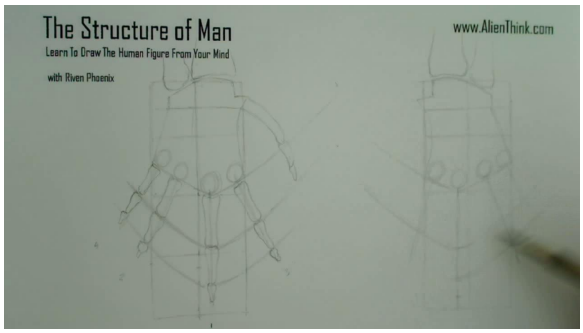
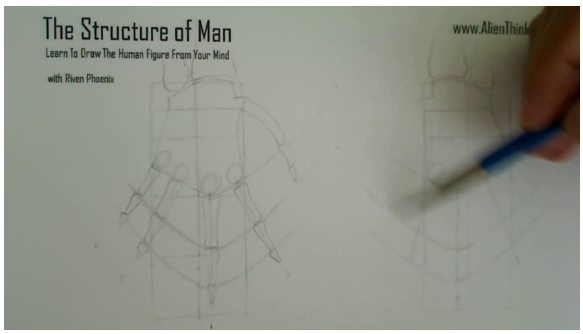
193		I'm going to get these concepts.
194		And they will meet much more earlier, right?
195		But it's just going to be the whole bone system like this over here, right?
196		So first we'll just put it up like this to get used to those concepts.

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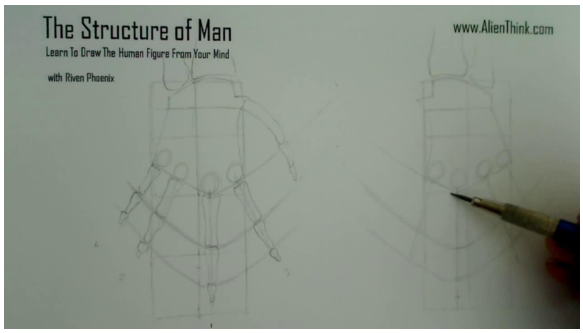
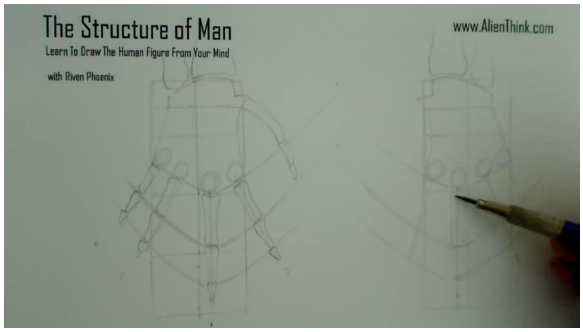
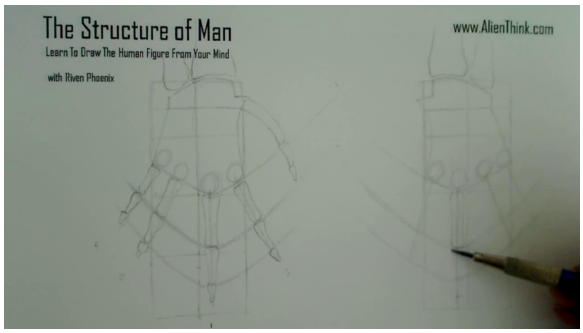
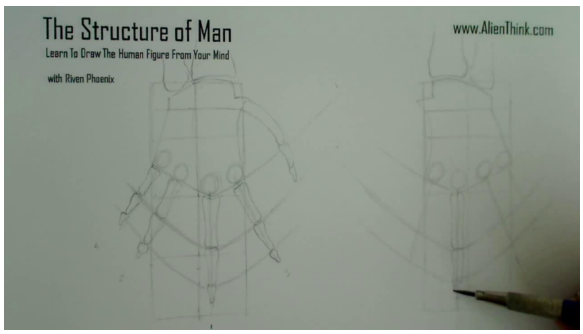
197		So here I'm just going to draw out this bone first over here.
198		I know that this bone is just going to be simply like this.
199		This guy is going to come in over here and he wants to be like this
200		and then you got this small guy over here, right?

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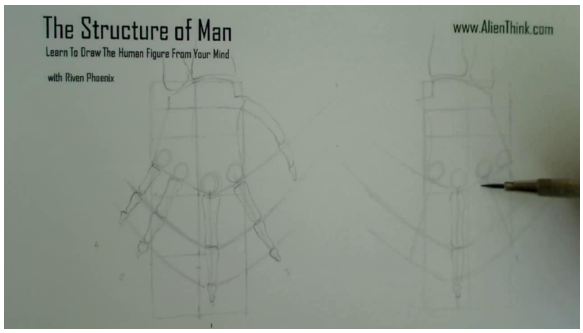
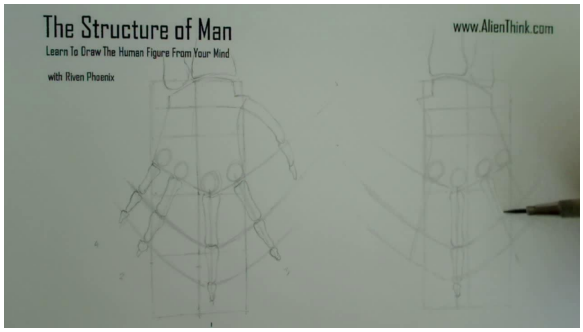
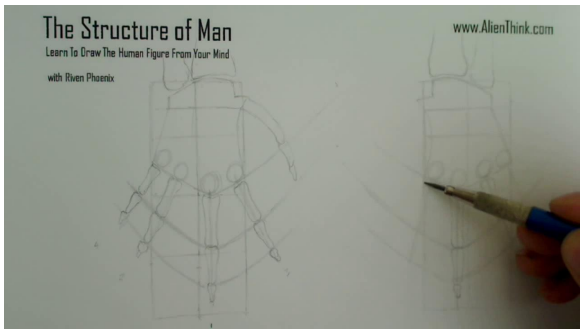
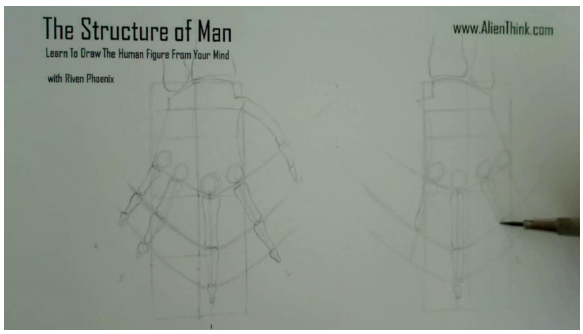
201		So over here, I'm going to draw out the ring finger bone over here first.
202		I just draw it out conceptually and then draw out this one, right?
203		Because now you want to always get used to this idea that this guy is going to be a little bigger than this.
204		But in the end, he is the one that becomes much more bigger in the end, right?

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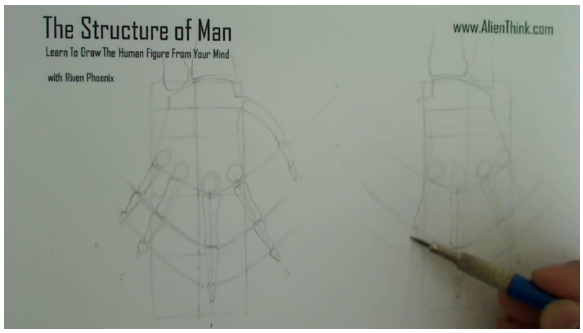
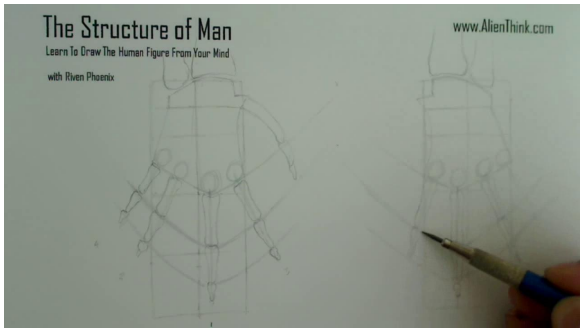
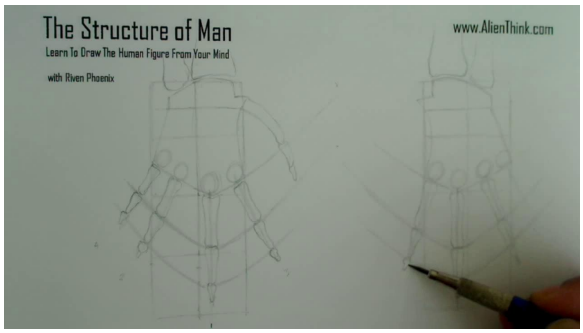
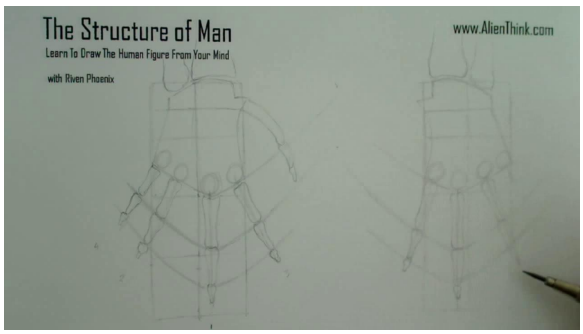
205		And he's just going to go like this over here.
206		Bone just becomes a little smaller and he's just going to be the bone.
207		It's just going to be like this for him over here, right?
208		So he's going to be a little more bigger always than here.

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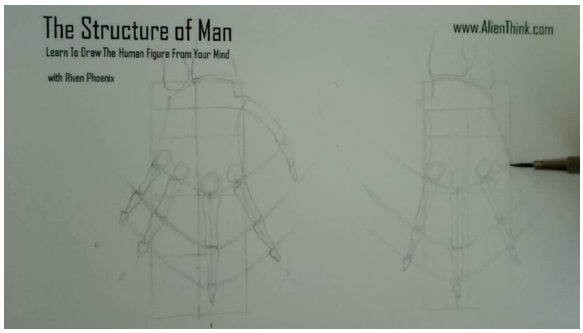
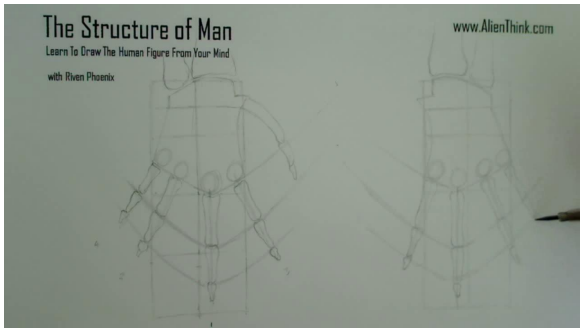
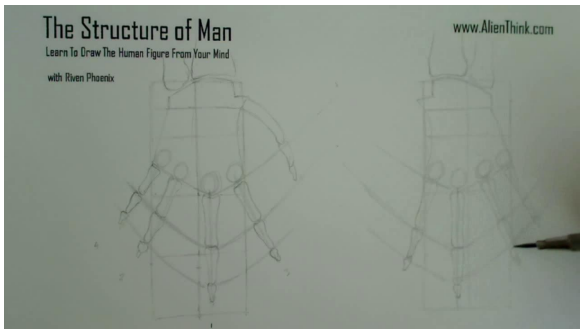
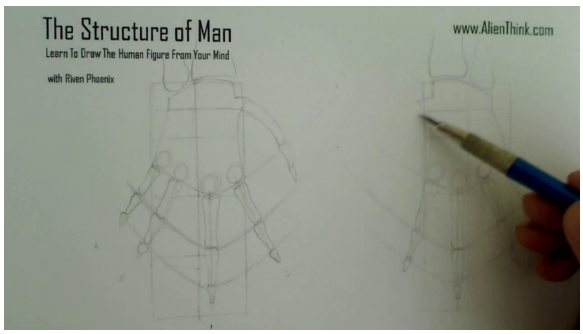
209		And over here, we can just simply draw out the bone for the small finger over here.
210		And then Joe has dried out knowing that right.
211		Look, it's all automatic, right?
212		And then here we already know that just over here, which is all we have to do is now curve this in and this is going to be inside.

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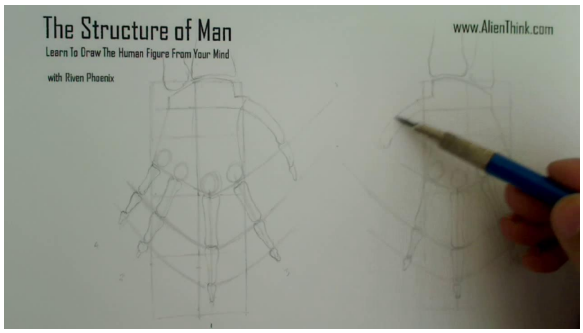
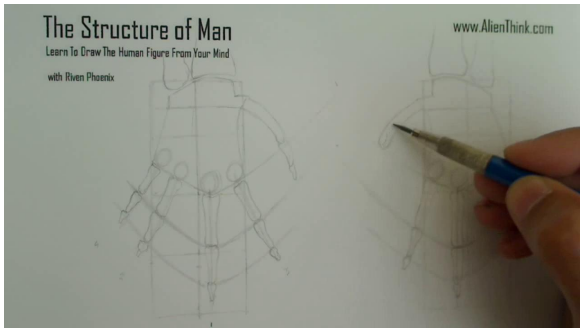
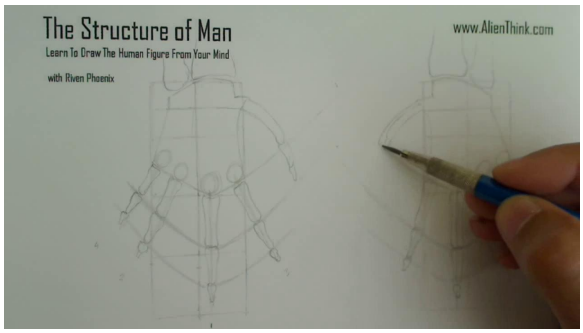
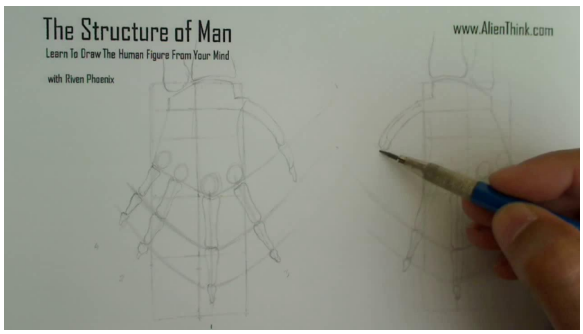
213		Now the difference here is when we draw out the palm, we're going to actually envision this in 3D.
214		And this is going to go like this over here, right?
215		In envision this as a hook coming this way.
216		So this means that see, this is going down away from us because the thumb is always pointing down kind of, right?

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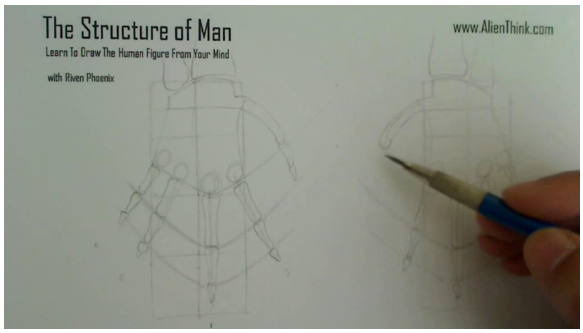
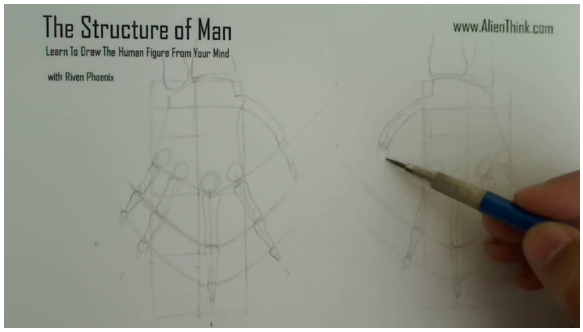
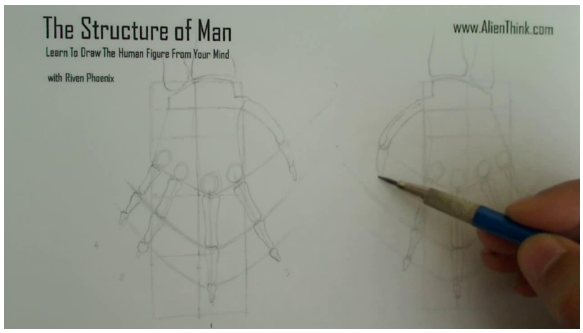
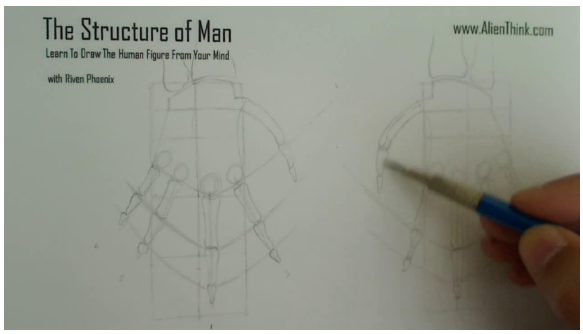
217		So here when we draw out this bone here, we don't have to think about this in 3D right in the beginning.
218		Just just draw it out like this first.
219		Get the whole concept down over here and just say that, okay, I'm beginning to get this idea.
220		And really these guys are just coming more towards in the end, right?

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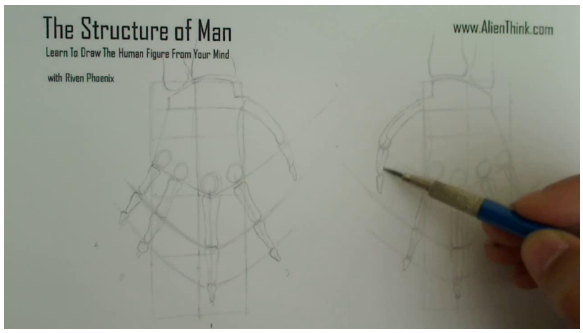
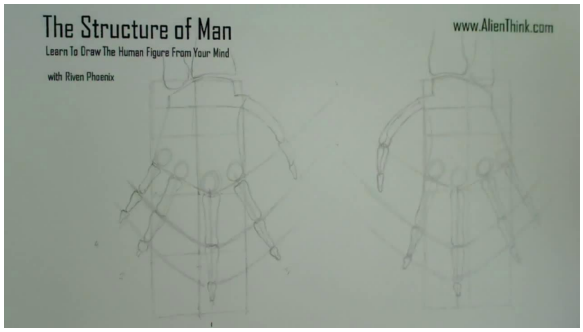
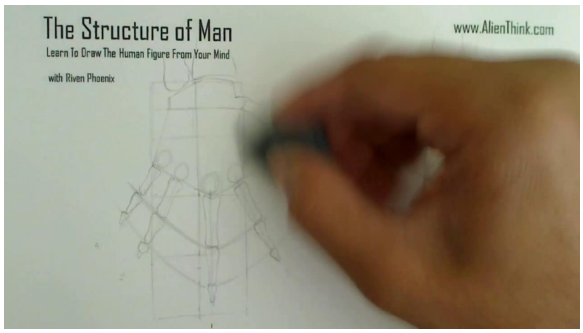
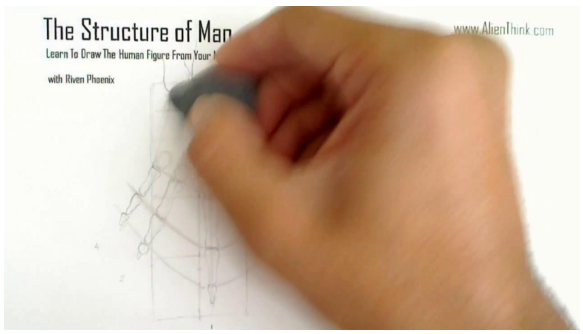
221		It's just conceptually understanding this.
222		Okay, so once we've gotten this, all we have to do is now clean up everything over here.
223		So just get rid of all these lines.
224		We don't need them anymore, right?

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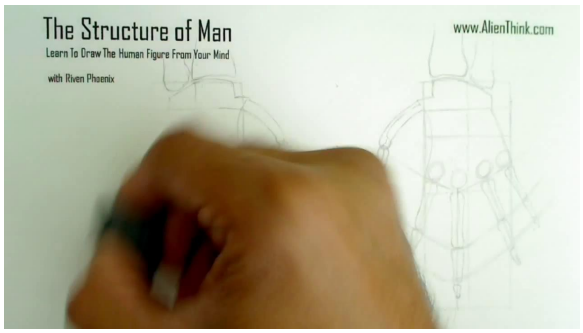
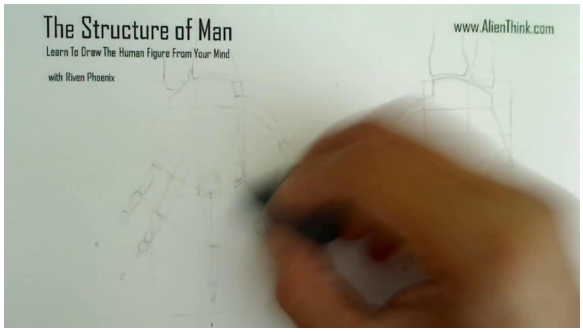
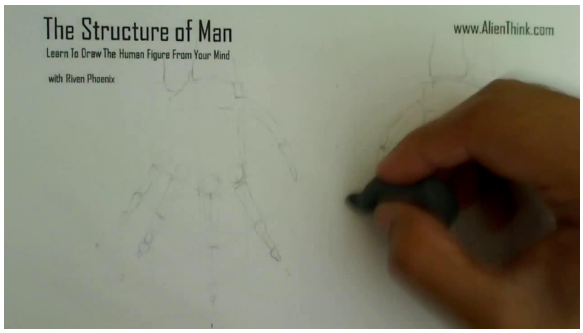
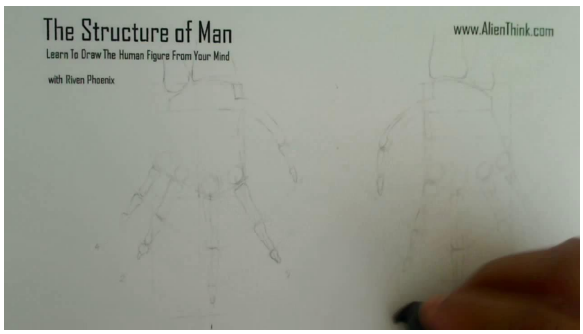
225		Now we're going to become more free in drawing out the head.
226		I'm just going to basically erase all these lines that we did.
227		Just make it light and then draw out everything.
228		Get rid of the grid.

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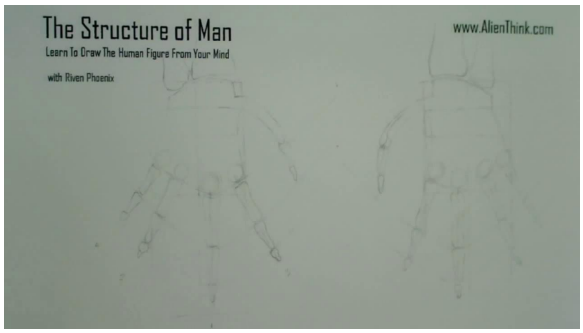
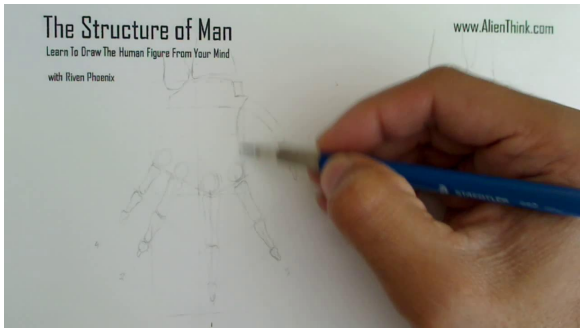
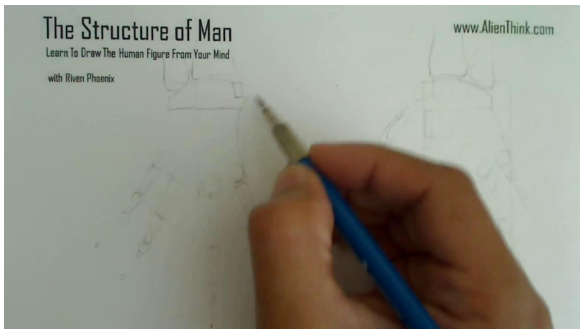
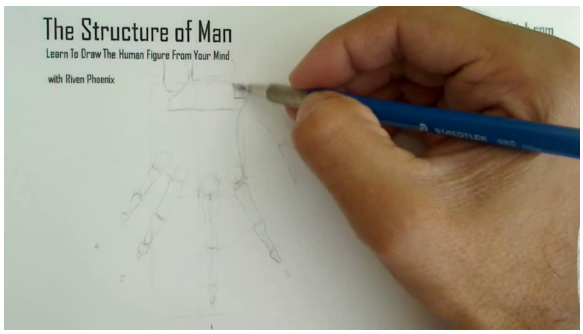
229		Okay, so now to draw this out, all we have to do is now understand, right?
230		This is over here. I understand this is the rest.
231		This is over here.
232		This is over here.

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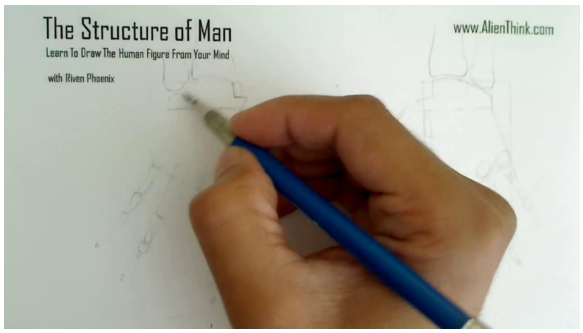
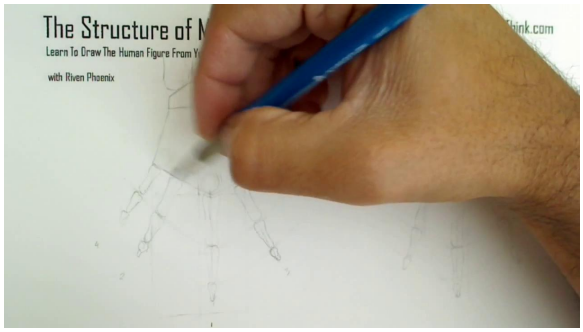
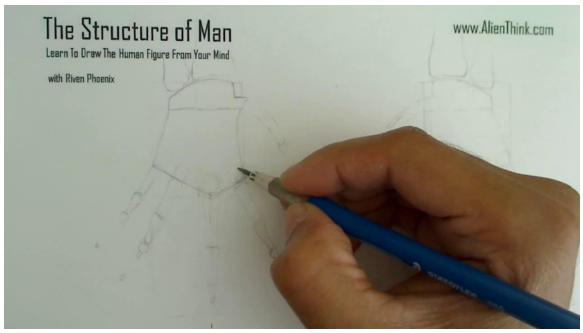
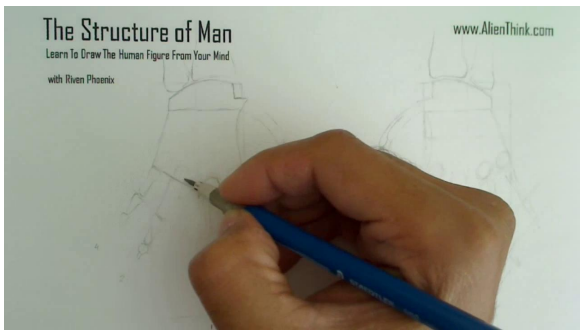
233		And this is going to go like this over here.
234		Right, and we can do this very quickly.
235		And over here, we're just going to draw out these knuckles here
236		because we still haven't finished the hand yet.

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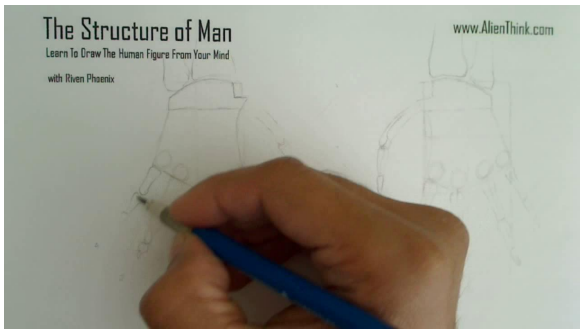
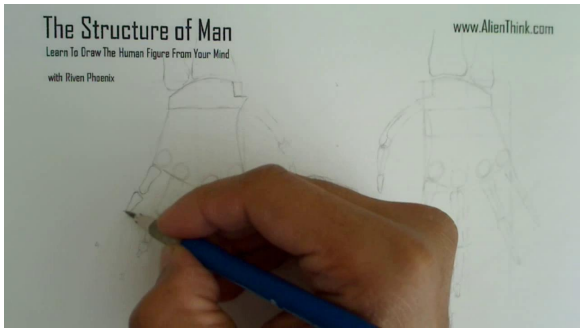
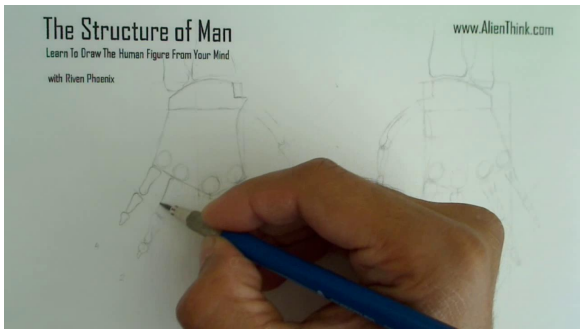
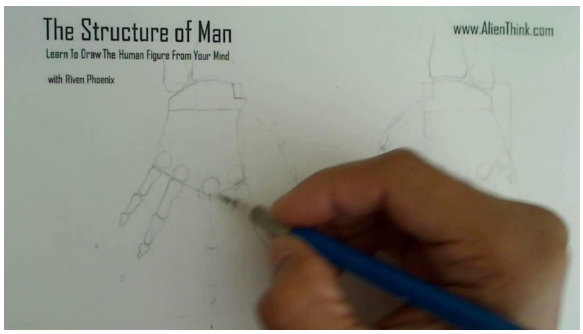
237		Right, because we still got to do the bones and the palm.
238		But I need to show you this system first to understand
239		about these bones here first.
240		Okay, so we both conceptually now understand how the system is working, right?

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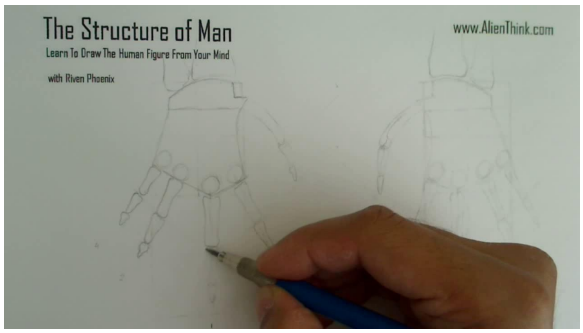
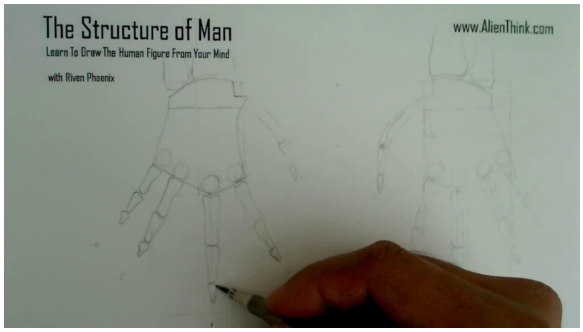
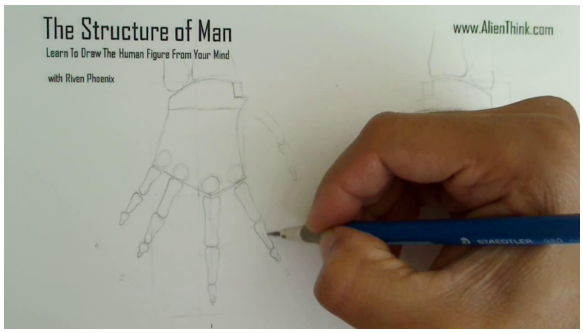
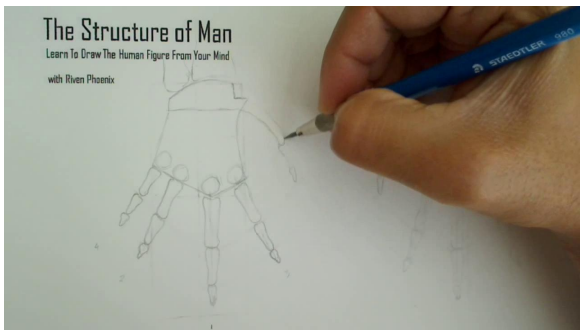
241		And it's really this numbering system that we're using,
242		just understanding who is bigger than who.
243		Remember, this bone here just becomes more pointy over here.
244		I'm just going to fix this over here like this.

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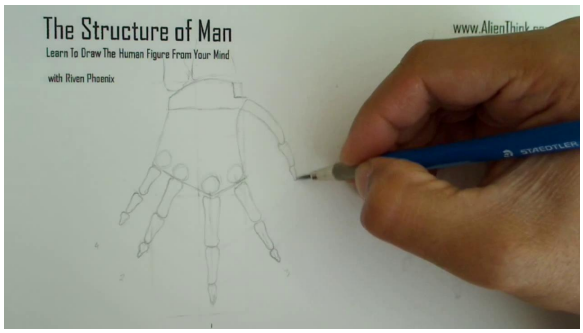
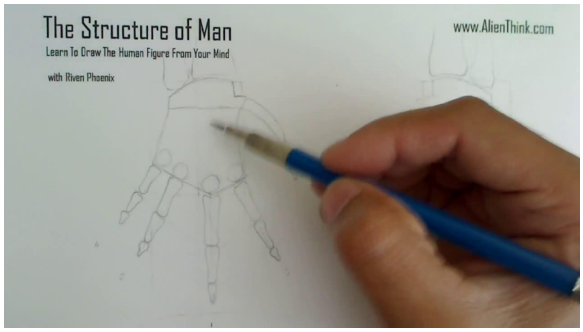
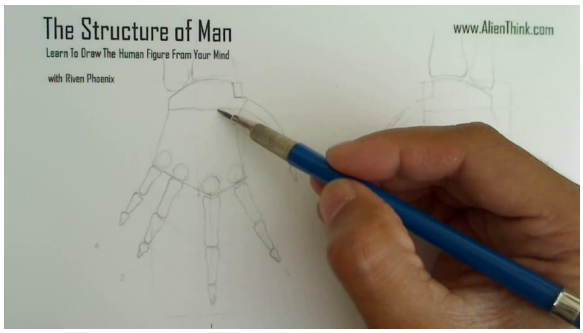
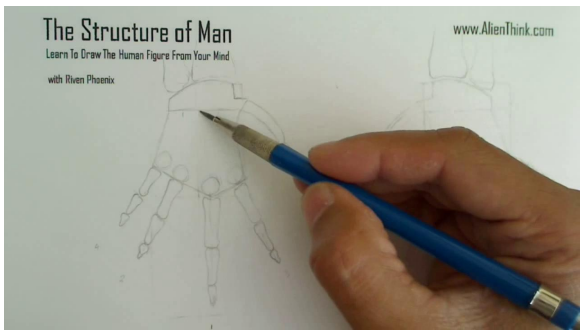
245		So let's talk about this palm structure.
246		Okay, so what happens here is that it's very basic.
247		You just divide just like this, right?
248		You're going to just get bones over here

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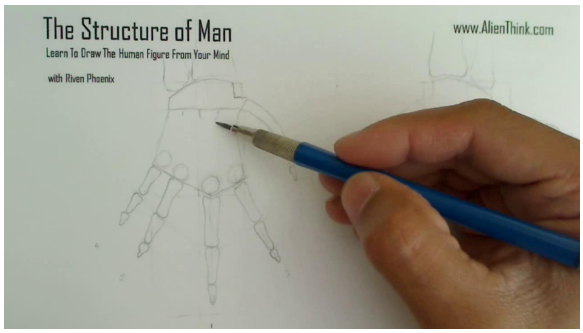
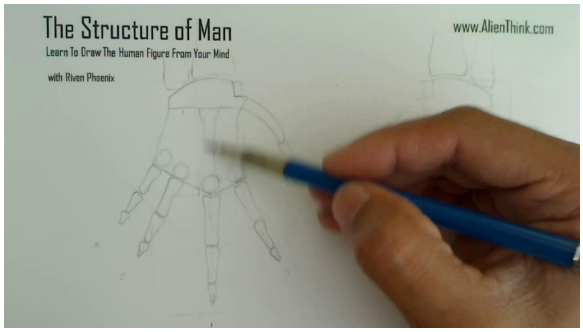
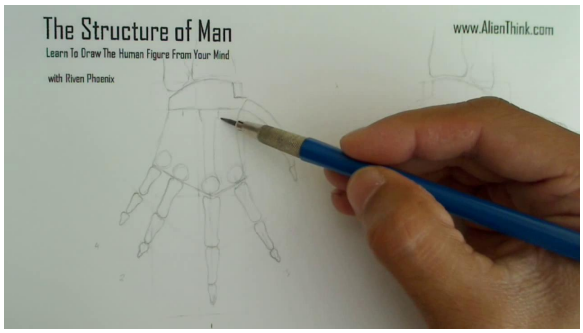
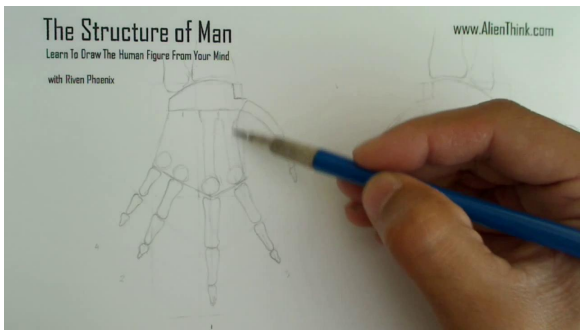
249		and it's just going to be on an angle a little bit, right?
250		And he wants to connect over here.
251		And you're going to get this guy over here and over here.
252		You're going to get this bone over here.

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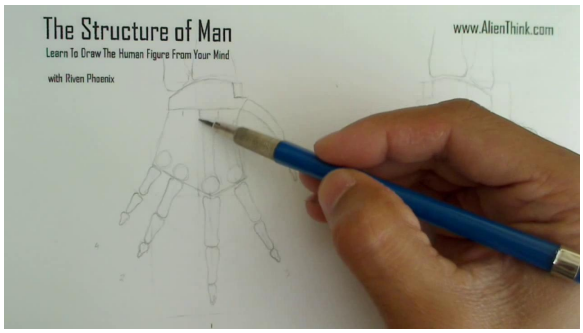
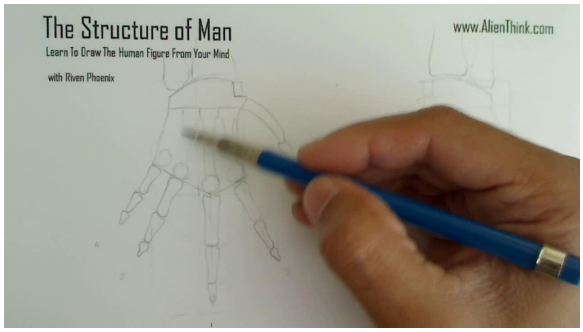
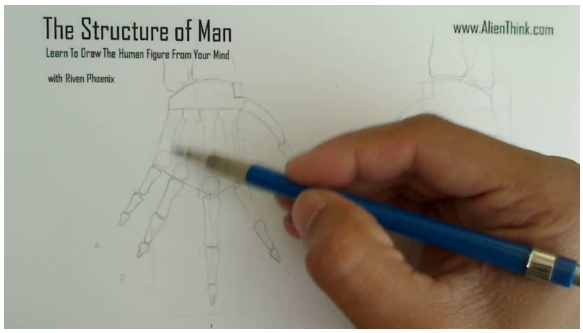
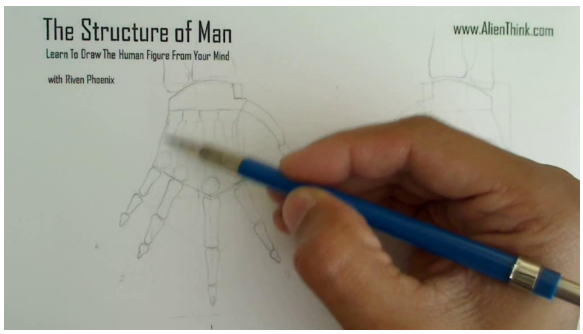
253		He's going to do the same thing.
254		Like this, he wants to connect and this guy over here
255		is just going to be the small ball like this, right?
256		The small version.

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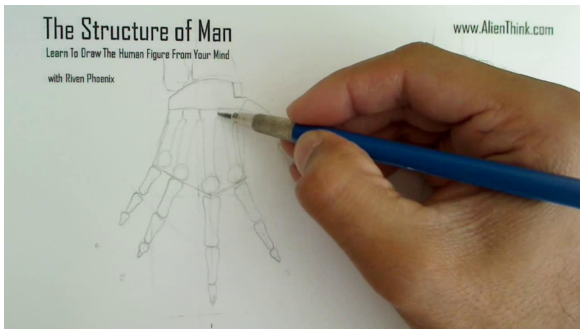
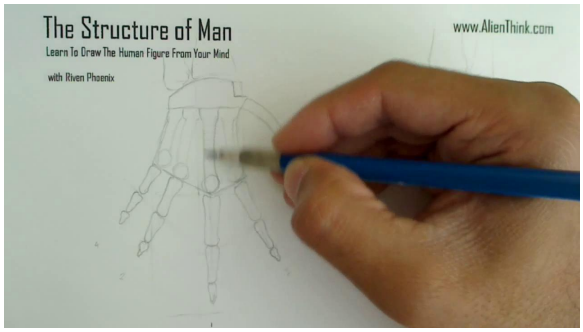
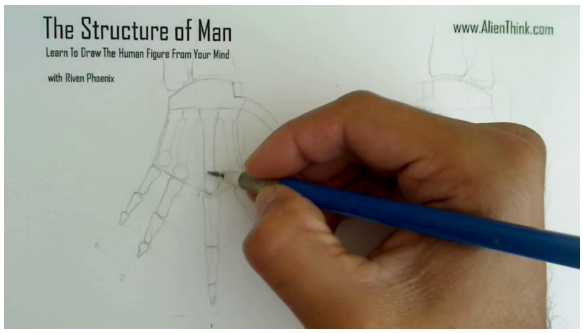
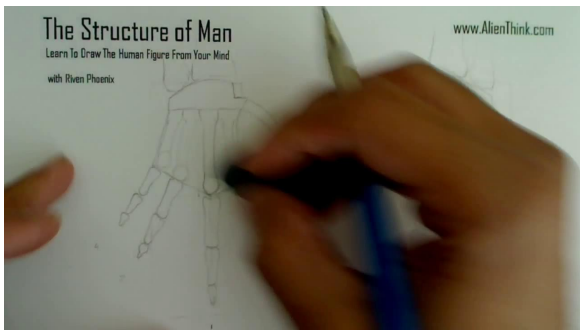
257		So here to draw them out, we just draw them out as these bones
258		with these ball shapes on them.
259		Okay.
260		So here I'm just going to clean all this up over here,

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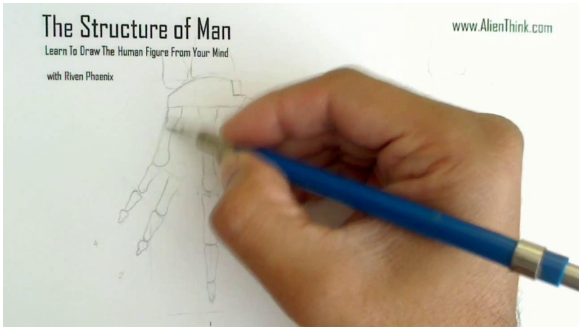
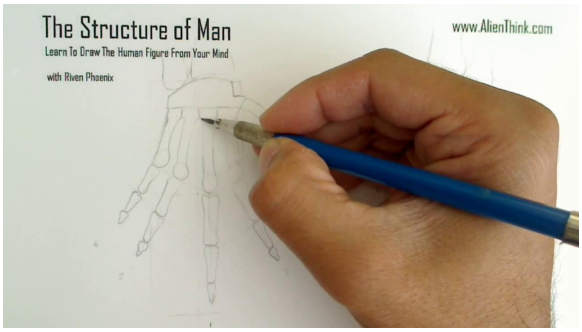
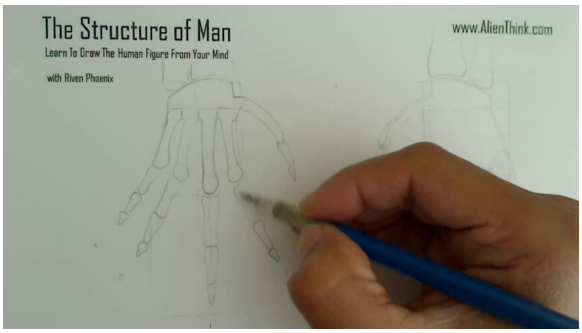
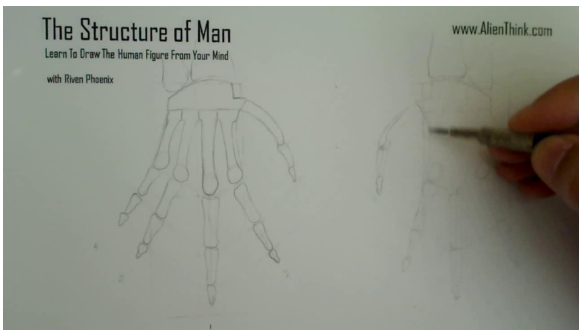
261		just like this.
262		Okay.
263		So now we can take a look at this.
264		This hand over here and see how this structure is going to work, right?

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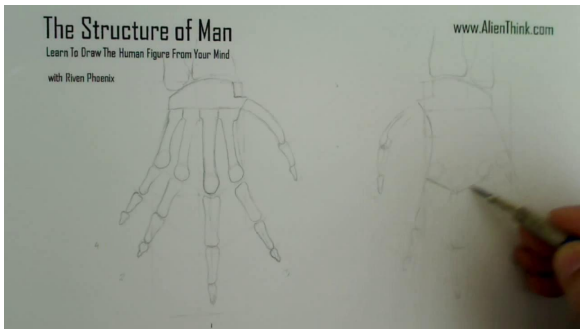
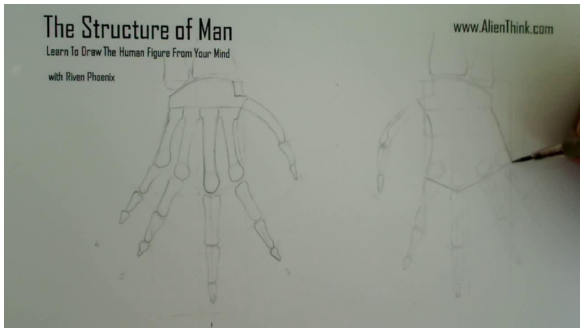
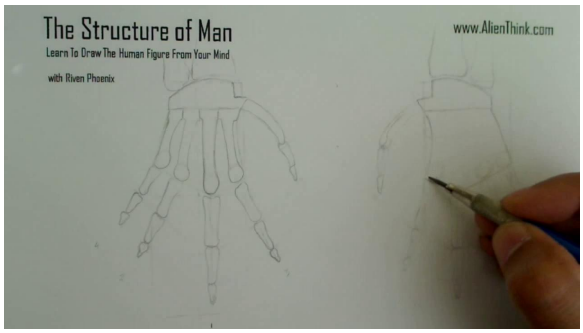
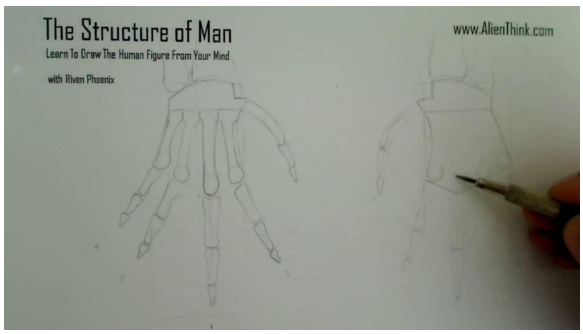
265		So here I'm just going to put this over here like this.
266		Just go down and I know that this is the line for the wrist.
267		Right, so here you know, you don't have to draw it out.
268		What will circle here?

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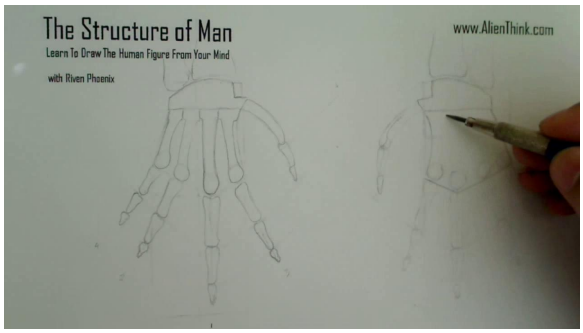
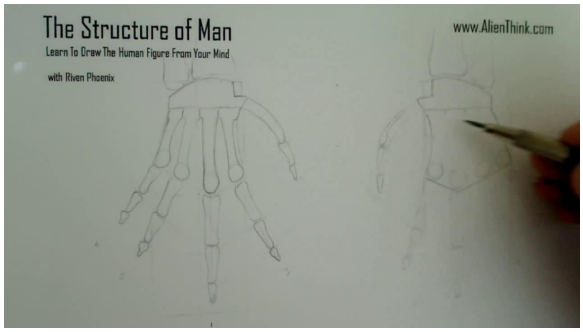
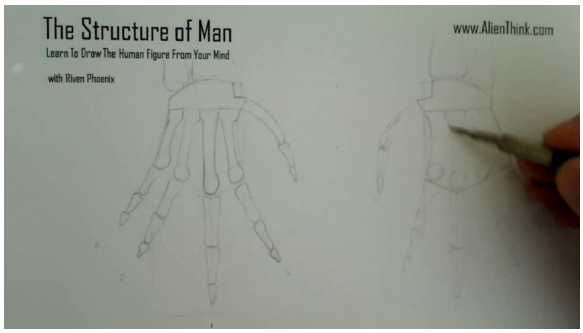
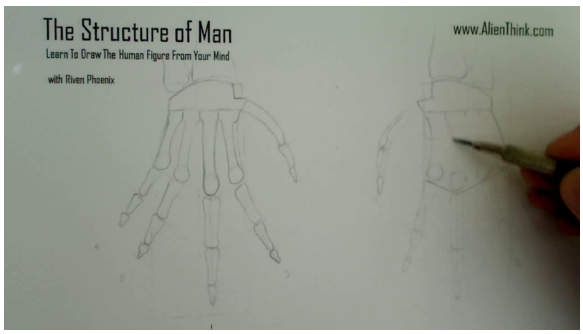
269		So now you know that I'll give one, two, three, four.
270		I'll get those ideas.
271		So now you know that right.
272		What you're saying is that really this is curving in more two words, right?

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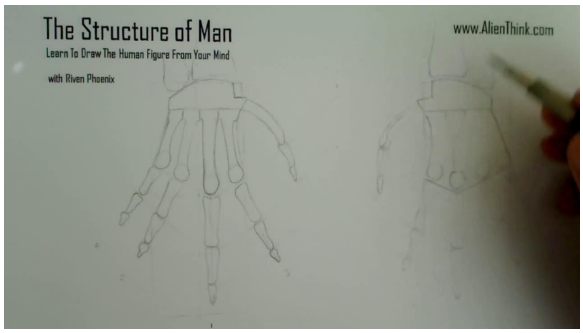
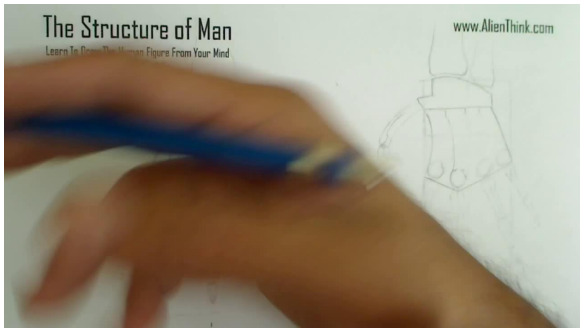
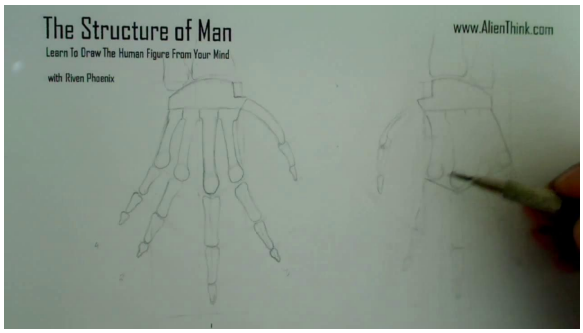
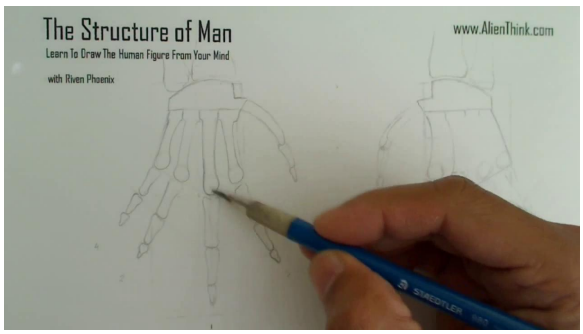
273		And this is because, look, it's on a curve, the palm.
274		So they're coming more towards it.
275		They were going away from us.
276		That's why they're on a curve like this, right?

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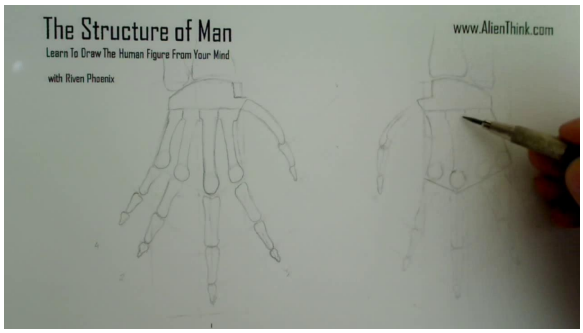
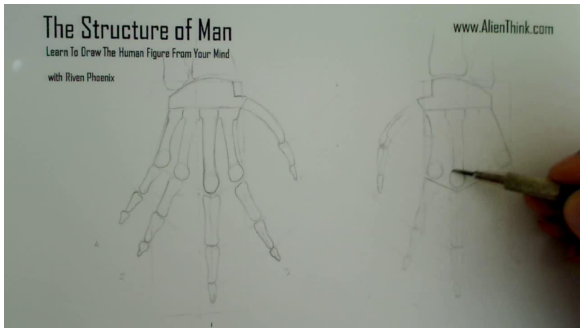
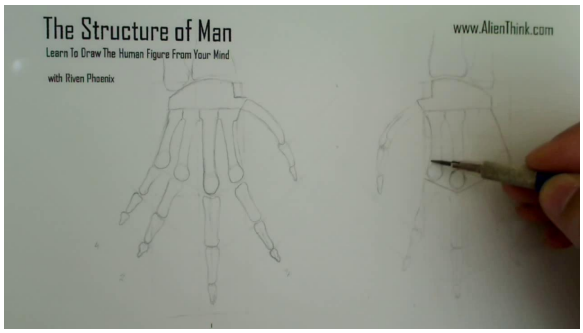
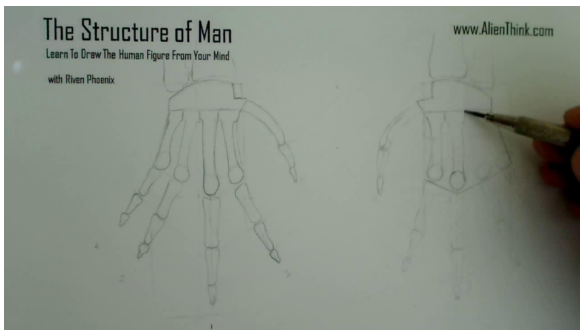
277		And then over here we can just make them, show them like this
278		with the ball shape over here.
279		Okay.
280		And then over here.

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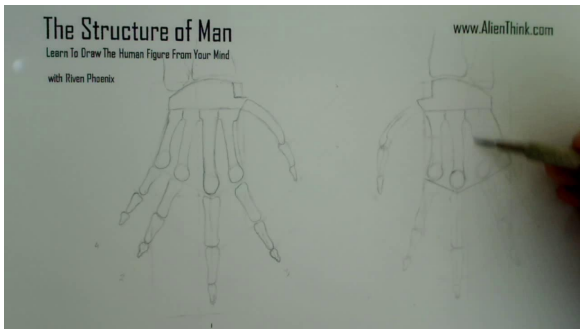
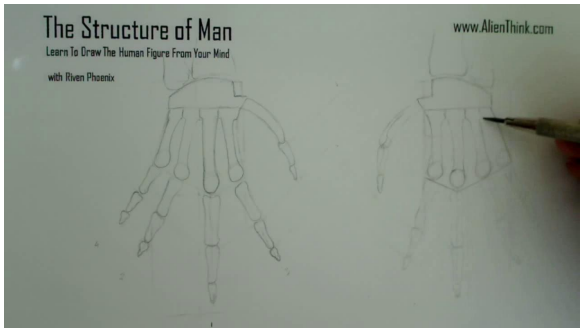
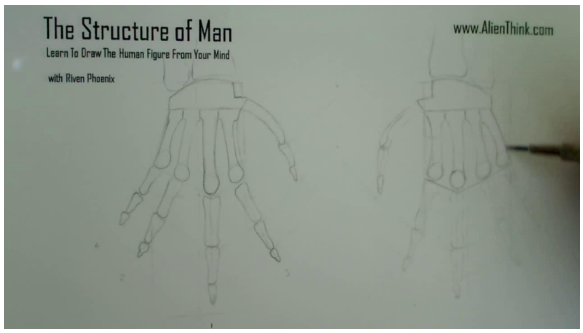
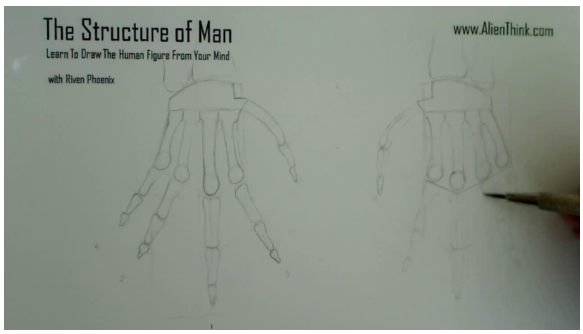
281		And just draw out this, like this, over here.
282		And then over here I'm just going to draw this out like this.
283		So they're coming more towards us.
284		And then over here, let's finish this growing up quickly over here.

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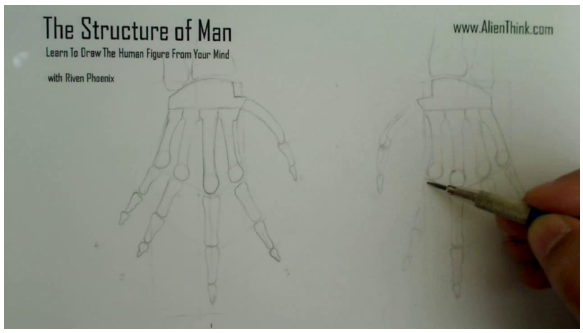
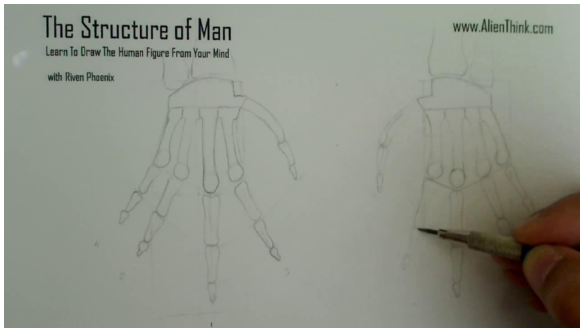
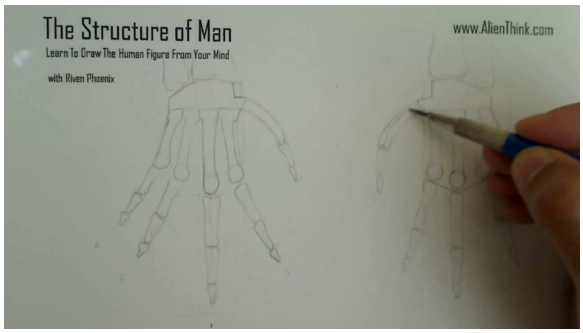
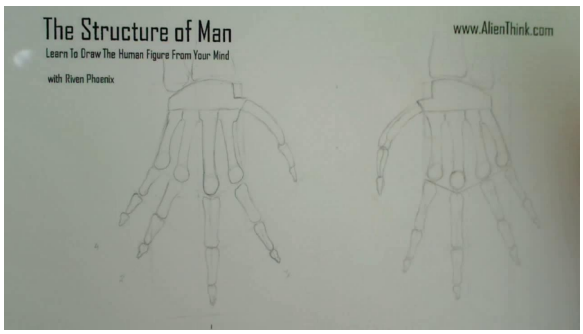
285		Okay.
286		And then over here I'm just going to draw this out like this over here.
287		Let's just say that this is just connected over here.
288		Okay.

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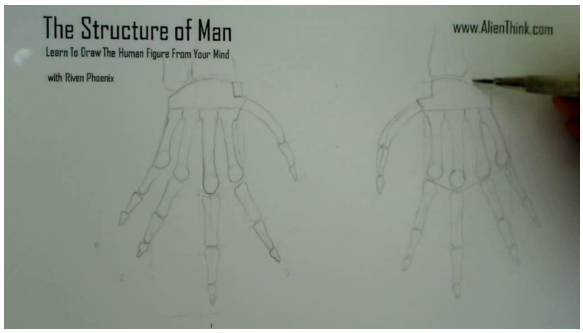
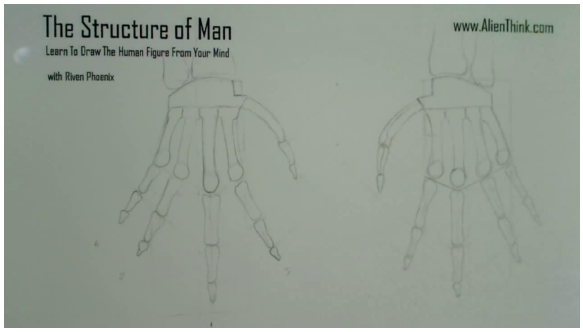
289		So now I'll see you in the next lesson.
290		Thanks.

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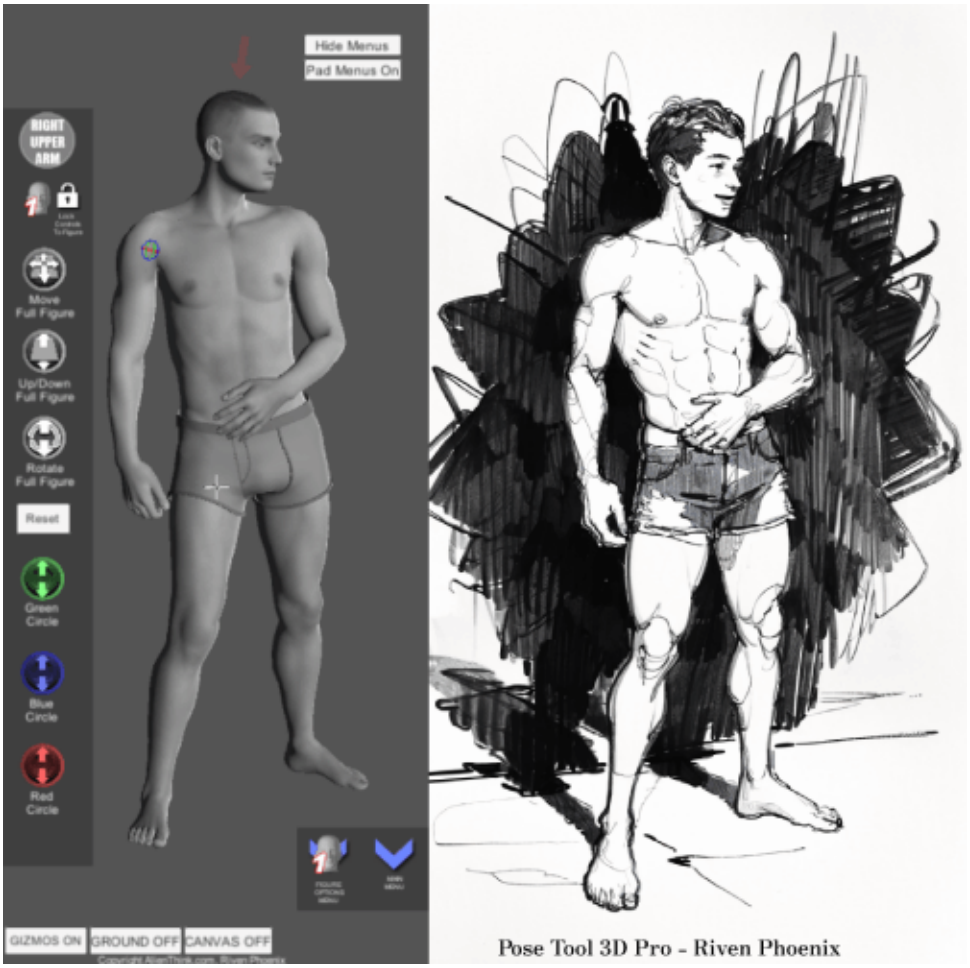

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